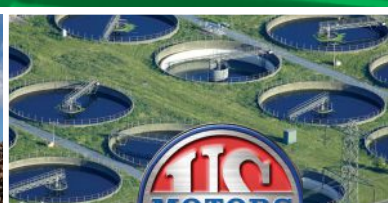
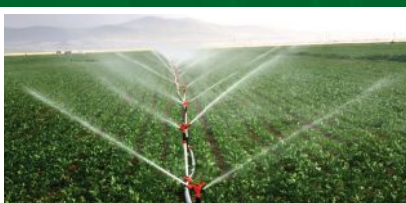


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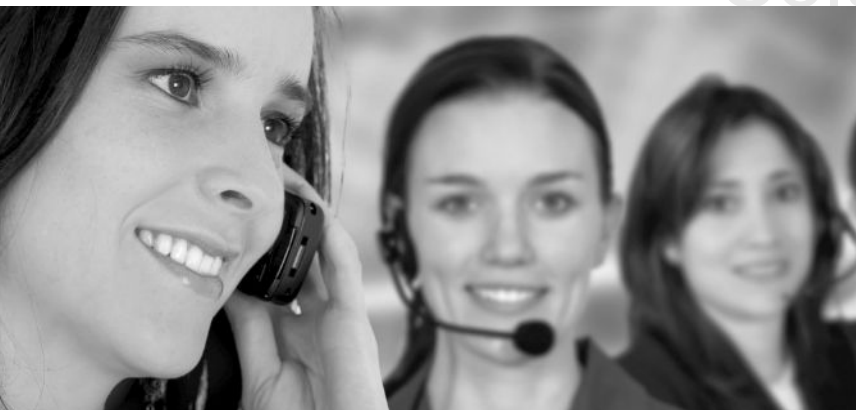
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To search for a current U.S. MOTORS product, select the "Nidec Search" tab.

Type in the catalog or model number to find that motor.

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The eCatalog and Cross Reference are mobile friendly, so you can easily search for a motor while on the job site.

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- Type ahead search
- My Favorites for frequently purchased items
- Product Comparison for side by side evaluation
- Accessories that are commonly purchased with motors
- Suggested suitable and direct replacements

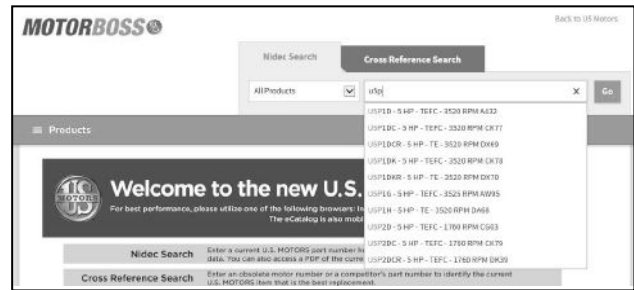


# eBusiness Solutions

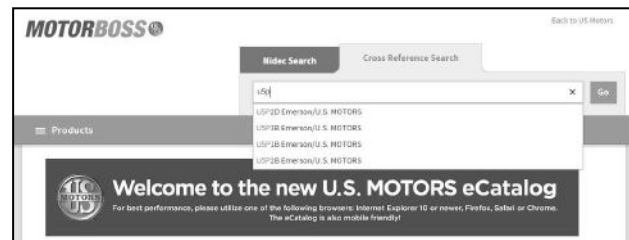
eCatalog enables you to find the motor you need even if you have another manufacturer's part number.

Start your search at [ecatalog.motorboss.com](http://ecatalog.motorboss.com).

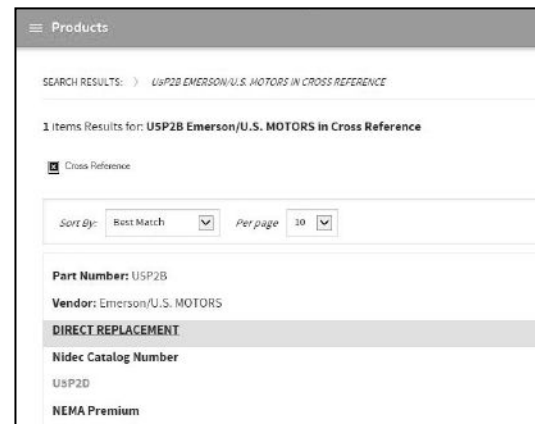
1. Search for a current U.S. MOTORS product in the Nidec Search Tab. (Information will start automatically filling in after you type the third character. Select the proper motor from the drop down list.



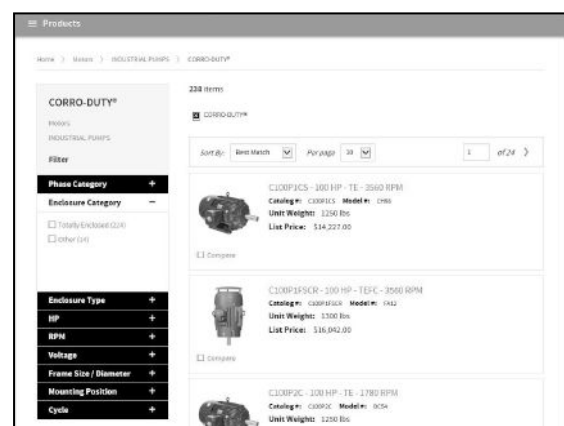
2. To search for another manufacturer's part number or an old U.S. MOTORS part number, search under the Cross Reference Search tab.



3. After selecting the motor, you will go to the page for that item which provides links to direct and suitable replacements



4. You can also search by product attributes. As you refine attributes, the number of motors displayed is reduced until you are left with the most appropriate match.



# eBusiness Solutions

## Energy Efficiency

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This section of our website contains the latest on government legislation as well as energy efficiency payback calculators. If you have a question about energy efficiency, this is the place to start:

<http://www.usmotors.com/Energy-Efficiency>

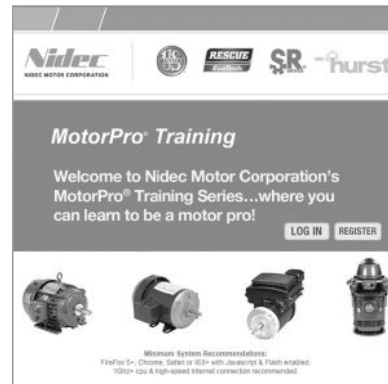
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Want to learn more about motors?  
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MOTORPRO™ training offers three modules:

- Module 1: Motor Cross Referencing
- Module 2: Motor Mechanical Terminology
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# New Product Offerings



## Vertical C-Face and P-Base Normal Thrust Motors 31

- TEFC CORRO-DUTY® NEMA®† PREMIUM
- Shaft slingers on both ends
- Cast iron bearings caps 180 Frame & Up
- Vertical lifting provision 180 Frame & Up
- Special balance (<0.08 In/Sec Vibration)



## ACCU-SERIES™ Variable Frequency Drives 113

- 1/8 – 600 HP
- IP00- IP65
- Digital or analog interface options
- Macros for pumps, fans, and industrial applications
- Motor Match Warranty extends drive warranty to match motor warranty



## ACCU-SERIES™ Hostile Duty Constant Torque Motors 133

- TEFC & TENV Hostile Duty
- Inverter optimized design to provide 20:1 constant torque
- Shaft grounding standard
- Encoder provision standard through 447 frame



## ACCU-SERIES™ Pump Panel 269

- 30-200 Horsepower
- NEMA 3R Enclosure
- UL 508 Listed
- Rated for 50°C Ambient
- ACCU-SERIES AD1000 VFD



## SINEWAVE OPTIMIZED™ Vertical Holloshaft® 274

- NEMA® table 12-12 efficiency levels (NEMA Premium®)
- 7.5 – 600 HP
- 3600, 1800, 1200 RPM
- 1.15 service factor
- Corrosion resistant mill & chemical duty paint
- Special balance
- Rated at 40°C Ambient, 3,300 FASL, Class B temperature rise at 1.0 Service factor
- 115V Space heaters through 250HP



## TITAN® Horizontal Medium Voltage Motors 302

- TEFC CORRO-DUTY®
- V-ring / umbrella seals on both ends
- 115V space heaters
- 100 ohm winding RTDs (2/phase) with auxiliary box
- Special balance
- Insulated bearing on opposite drive end



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## Important Information

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## IMPORTANT INFORMATION

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|-------------|-------------|-----------------|-----------------|
| 841 PLUS®   | ECONOMIZER® | INVERTER GRADE® | RESCUE EcoTech® |
| 661 PLUS®   | EXTREME E®  | MOJAVE®         | TITAN®          |
| ALLGUARD®   | E-Z Access™ | MOTORBOSS®      | UNIMOUNT®       |
| ACCU-Torq®  | EZ-FIT®     | MOTORPRO®       | US MOTORS®      |
| BALLOMATIC® | EZ48®       | ReadyLine®      | WORLD MOTOR®    |
| CORRO-DUTY® | HOLLOSHAFT® | RESCUE®         |                 |

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## Agency Approvals

### ISO 9001:2000 Certified

By British Standards Institute of America

### CSA International (CSA®†)

Formally the Canadian Standards Association

CSA®† sets safety standards for motors and other electrical equipment used in Canada. The motors that meet the CSA®† standards display the CSA®† logo on the nameplate.

### Underwriters Laboratories, Inc. (UL®†)

UL®† is an independent testing organization that sets safety standards for motors and other equipment and U.S. Motors® brand are UL®† component recognized.

### United States Department of Energy

All motors within this catalog that are required to comply with the United States Department of Energy's Efficiency regulation 10 CFR Section 431 Subpart B – electric motors, display the compliance certification number CC030A on the motor nameplate.

### Conformité Européenne European Community (CE Certification)

Nidec Motor Corporation provides a full line of general purpose CE certified motors. The CE marking indicates that the product complies with the essential requirements for health, safety, environmental and consumer protection. The CE mark can only be placed on those products that comply with the applicable European Directive. For U.S. Motors® brand, the CE logo is currently applied to non-hazardous location motors rated 1000 volts or less, frame 180 through 449, Dripproof and Totally Enclosed Fan Cooled enclosures. Many Nidec Motor Corporation motors have the CE logo. For information on motors with CE logos, contact your Nidec Motor Corporation representative. Other motors within this catalog that meet CE requirements will be labeled and certified to meet CE.

## UL®† & CSA®† Listings

|                      | UL®†   |        | CSA®†  |        |
|----------------------|--------|--------|--------|--------|
|                      | IHP    | FHP    | IHP    | FHP    |
| General Construction | E51488 | E22922 | 191252 | 156060 |
| Hazardous Location   | E10336 | E29183 |        |        |
| Thermal Protection   | E38946 | E10073 |        |        |
| Fire Pump            | EX5189 | -      | -      | -      |

\*For details on VFD for these motors, refer to Suitability of IHP Motors on Variable Frequency Drives (VFD), page vii.



# General Information for Integral Horsepower (IHP) Motors on Variable Frequency Drives (VFDs)

## Variable Frequency Drives (VFD)

A VFD is a type of controller used to vary the speed of an electric motor. The VFD takes a fixed AC voltage and frequency and allows it to be adjusted in order to get different speeds from the motor. Motor speed can be varied by changing the frequency of the input power waveform. The equation below shows how the frequency affects the speed of a three phase induction motor.

$$\text{Speed} = \frac{120 * \text{Fundamental Input Frequency}}{\text{Number of Motor Poles}}$$

## How does a VFD work?

A VFD takes the fixed frequency and voltage sine wave from the power grid or power station and puts it through a few steps in order to allow the VFD user to vary the frequency and in turn control the motor speed. First it rectifies the AC power into DC Power. Because of this step, a term commonly used instead of VFD is inverter. This only describes one step of what the VFD does to the power waveform. Once rectified into a DC voltage the drive sends the power through a set of transistors or switches. These switches can take the DC waveform and by opening and closing at certain speeds and durations can create an output waveform that mimics the sine wave that is required to drive a three phase electric motor. The output wave form is known as a Pulse Width Modulation (PWM) waveform because the waveform is created by multiple pulses of the switches at short intervals.

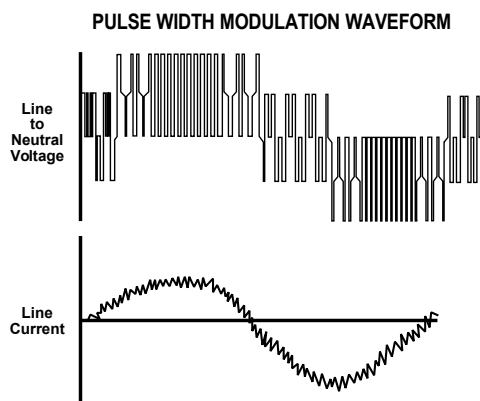


Figure 1 PWM Waveform

## What variables should be considered when deciding whether to power a motor with a VFD?

VFD compatibility with motors is complex. As a result, many variables must be considered when determining the suitability of a particular motor for use with a VFD. These variables include:

- Torque requirements (Constant or Variable)
- Speed Range
- Line / System Voltage
- Cable length between the VFD and the motor
- Drive switching (carrier) frequency
- Motor construction

- VFD dv/dt
- High temperatures or high humidity
- Grounding system

Wider speed ranges, higher voltages, higher switching frequencies, insufficient grounding and increased cable lengths all add to the severity of the application and, therefore, the potential for premature motor failure.

## How does a VFD affect the motor?

There are many things to consider when a motor is powered using a VFD or PWM power. When a motor is powered by a PWM waveform the motor windings very often see a large differential voltage, either from phase to phase or turn to turn. When the voltage differential becomes large enough it creates a reaction at the molecular level that converts available oxygen into O<sub>3</sub>. This phenomenon is called partial discharge or corona. This reaction creates energy in the form of light and heat. This energy has a corrosive effect on the varnish used to protect the motor windings. PWM waveforms can also magnify shaft voltages which lead to arcing across the bearing and causing premature bearing failure. Corrective action must be taken to mitigate these issues that arise when using an electric motor with a VFD.

## How do I protect the motor?

Nidec Motor Corporation (NMC) has developed specific motor designs to decrease the harmful affects that a VFD can have on a motor. NMC's INVERTER GRADE<sup>®</sup> insulation system is the first line of defense against corona and phase to phase faults that can be common when a motor is powered using a PWM waveform. The INVERTER GRADE<sup>®</sup> insulation system is standard on all of NMC's Inverter Duty products. Along with the INVERTER GRADE<sup>®</sup> insulation, thermostats are installed as a minimum protection against over heating the motor. Special consideration must also be given to bearings in motors powered by VFD's. In order to create a low resistance path to ground for built up shaft voltages a shaft grounding device can be used. On larger horsepower motors an insulated bearing system should be used in conjunction with the shaft grounding device when installed, to force the stray shaft voltages to ground. The bearing failures are more prominent on motors with thrust handling bearings. NMC has created an Inverter Duty vertical motor line that not only uses the INVERTER GRADE<sup>®</sup> insulation system, but that also comes standard with a shaft grounding device. On motors that are 100 HP and greater the thrust bearing is also insulated for additional protection.

## What does "Inverter Duty" mean?

An Inverter Duty motor should describe a motor that helps mitigate potential failure modes of a motor that is powered by a VFD. Inverter duty motor windings should be able to withstand the voltage spikes per NEMA MG1 Part 31.4.4.2 and protect against overheating when the motor is run at slow speeds. On thrust handling bearings it is apparent that the bearings require additional protection. Inverter Duty vertical motors should have a shaft grounding device to protect the motor bearings from fluting due to voltage discharge through the bearing. On larger motors (100HP and larger) the shaft should also be electrically isolated from the frame in order to aid the shaft grounding ring in discharging the shaft voltages to ground.

\*This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL<sup>®</sup> & CSA<sup>®</sup> listings where indicated.

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# Motor / Inverter Compatibility

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## Thermal Overloads and Single Phase Motors

Motors with thermal overloads installed may not operate properly on a VFD. The current carrying thermal overload is designed for sine wave power. Operation on a VFD may cause nuisance tripping or potentially not protect the motor as would be expected on line power. Thermostats or thermistors installed in the motor and connected properly to the VFD may provide suitable thermal overload protection when operating on a VFD. (consult codes for installation requirements)

Single phase motors and other fractional horsepower ratings are not designed to be operated on a VFD. Within Nidec Motor Corporation standard products, all motors NEMA® 48 frame (5.5" diameter) and smaller are not suitable for VFD applications. Three phase 56 and 143/145 frame applications should be noted on the catalog price page; or if in doubt ask an Nidec Motor Corporation technical representative for recommendations on compatibility with a VFD.

## Slow Speed Motors

Motors with a base design of slower than six poles require special consideration regarding VFD sizing and minimizing harmonic distortion created at the motor terminals due to cable installation characteristics. Additional external PWM waveform filters and shielded motor cables designed for PWM power may be required to provide acceptable motor life. Harmonic distortion on the output waveform should be kept to a minimum level (less than 10%) mismatch impedance.

## 690V Applications

Motors that are rated for 690VAC and that will be powered by 690VAC PWM VFDs require the use of an external filter to limit peak voltage spikes and the use of an INVERTER GRADE® motor. Where available, an alternative to using an output filter is to upgrade to a 2300V insulation system.

## Low Voltage TITAN® Motors

When using 449 frame and larger motors on PWM type VFDs consider the use of an external filter and shielded motor cables designed for PWM power to minimize harmonic distortion and peak voltages at the motor terminals. Harmonic distortion on the output waveform should be kept to a minimum level (less than 10%).

## Bearing Currents Related to PWM Waveforms

Due to the uniqueness of this condition occurring in the field, protection of the motor bearings from shaft currents caused by common mode voltages is not a standard feature on sine wave or Inverter Duty motor products, unless explicitly noted. Some installations may be prone to a voltage discharge condition through the motor bearings called Electrical Discharge Machining (EDM) or fluting.

EDM damage is related to characteristics of the PWM waveform, and the VFD programming, and installation factors.

Bearing EDM as a result of VFD waveform characteristics may be prevented by the installation of a shaft grounding device such as a brush or ring and/or correction of the installation characteristics causing the shaft voltage condition. Insulated bearing(s) may be required. VFD filters may be used if bearing fluting is to be mitigated.

## Bearing Protection on Inverter Duty Vertical Motors

All U.S. MOTORS® brand "Inverter Duty" vertical products have a shaft grounding system that allows damaging shaft currents a low resistance path to ground. **Bearings on vertical motors fed by VFD power without this bearing protection are not covered under any warranty.** All other bearing failure is covered per NMC's standard warranty. An electric motor repair shop approved to service U.S. MOTORS® brand motors must verify that the cause of the bearing failure was not due to EDM damage.

## Multiple Motors on a Single VFD

Special considerations are required when multiple motors are powered from a single VFD unit. Most VFD manufacturers can provide guidelines for proper motor thermal considerations and starting/stopping of motors. Cable runs from the VFD and each motor can create conditions that will cause extra stress on the motor winding. Filters may be required at the motor to provide maximum motor life.

## Grounding and Cable Installation Guidelines

Proper output winding and grounding practices can be instrumental in minimizing motor related failures caused by PWM waveform characteristics and installation factors. VFD manufacturers typically provide detailed guidelines on the proper grounding of the motor to the VFD and output cable routing. Cabling manufacturers provide recommended cable types for PWM installations and critical information concerning output wiring impedance and capacitance to ground.

## Vertical Motors on VFDs

Vertical motors operated on VFD power present unique conditions that may require consideration by the user or installation engineer:

- Locked rotor and drive tripping caused by non-reversing-ratchet operation at low motor speeds. It is not recommended to operate motors at less than 1/4 of synchronous speed. If slow speeds are required contact NMC engineering.
- Unexpected / unacceptable system vibration and or noise levels caused by the torque pulsation characteristics of the PWM waveform, a system critical frequency falling inside the variable speed range of the process or the added harmonic content of the PWM waveform exciting a system component
- Application related problems related to the controlled acceleration/ deceleration and torque of the motor on VFD power and the building of system pressure/ load.
- The impact the reduction of pump speed has on the down thrust reflected to the pump motor and any minimum thrust requirements of the motor bearings
- Water hammer during shutdown damaging the non-reversing ratchet

## Humidity and Non-operational Conditions

The possible build-up of condensation inside the motor due to storage in an uncontrolled environment or non-operational periods in an installation, can lead to an increased rate of premature winding or bearing failures when combined with the stresses associated with PWM waveform characteristics. Moisture and condensation in and on the motor winding over time can provide tracking paths to ground, lower the resistance of the motor winding to ground, and lower the Corona Inception Voltage (CIV) level of the winding.

Proper storage and maintenance guidelines are important to minimize the potential of premature failures. Space heaters or trickle voltage heating methods are the common methods for drying out a winding that has low resistance readings. **Damage caused by these factors are not covered by the limited warranty provided for the motor unless appropriate heating methods are properly utilized during non-operational periods and prior to motor start-up.**

**NEMA® Application Guide for AC Adjustable Speed Drive Systems:**  
<http://www.nema.org/stds/acadjustable.cfm#download>

\* This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL® & CSA® listings where indicated.

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# Warranty Guidelines for Integral Horsepower (IHP)\* Motors on Variable Frequency Drives

## Warranty Guidelines

The information in the following section refers to the motor and drive application guidelines and limitations for warranty.

### Hazardous Location Motors

Use of a variable frequency drive with the motors in this catalog, intended for use in hazardous locations, is only approved for Division 1, Class I, Group D hazardous location motors with a T2B temperature code, with a limitation of 2:1 constant torque or 10:1 variable torque output. **No other stock hazardous location motors are inherently suitable for operation with a variable frequency drive.** If other requirements are needed, including non-listed Division 2, please contact your Nidec Motor Corporation territory manager to conduct an engineering inquiry.

### 575 Volt Motors

575 volt motors can be applied on Inverters when output filters are used. Contact the drive manufacturer for filter selection and installation requirements.

### Applying INVERTER GRADE® Insulated Motors on Variable Frequency Drives (2, 4, 6 pole)

The products within this catalog labeled "Inverter Duty" or "Vector Duty" are considered INVERTER GRADE® insulated motors. INVERTER GRADE® motors exceed the NEMA® MG-1 Part 31 standard. Nidec Motor Corporation provides a three-year limited warranty on all NEMA® frame INVERTER GRADE® insulated motors and allows long cable runs between the motor and the VFD (limited to 400 feet without output filters). Cable distance can be further limited by hot and humid environments and VFD manufacturers cable limits. These motors may be appropriate for certain severe inverter applications or when the factors relating to the end use application are undefined (such as spares).

Nidec Motor Corporation's U.S. Motors® brand is available in the following INVERTER GRADE® insulated motors:

- Inverter Duty NEMA® frame motors good for 10:1 Variable Torque & 5:1 Constant Torque, including Vertical Type RUSI
- Inverter Duty motors rated for 10:1 Constant Torque
- ACCU-Torq® and Vector Duty Motors with full torque to 0 Speed
- 841 Plus® NEMA® Frame Motors

### Applying Premium Efficient motors (that do not have INVERTER GRADE® insulation) on Variable Frequency Drives (2, 4, 6 pole)

Premium efficient motors without INVERTER GRADE insulation meet minimum NEMA® MG-1, Section IV, Part 31.4.4.2. These motors can be used with Variable Frequency Drives (with a reduced warranty period) under the following parameters:

- On NEMA® frame motors, 10:1 speed rating on variable torque loads & 4:1 speed range on constant torque loads.
- On TITAN® frame motors, 10:1 speed rating on variable torque loads.
- On TITAN® frame motors, inquiry required for suitability on constant torque loads.

Cable distances are for reference only and can be further limited by hot and humid environments (refer to Table 1). Refer to specific VFD manufacturers cable limits. Refer to the Motor/ Inverter Compatibility page for special consideration of vertical motor bearings.

| Table 1 - Cable Distances           |          |          |          |
|-------------------------------------|----------|----------|----------|
| Maximum Cable Distance VFD to Motor |          |          |          |
| Switching Frequency                 | 460 Volt | 230 Volt | 380 Volt |
| 3 KHz                               | 127 ft   | 400 ft   | 218 ft   |
| 6 KHz                               | 90 ft    | 307 ft   | 154 ft   |
| 9 KHz                               | 73 ft    | 251 ft   | 126 ft   |
| 12 KHz                              | 64 ft    | 217 ft   | 109 ft   |
| 15 KHz                              | 57 ft    | 194 ft   | 98 ft    |
| 20 KHz                              | 49 ft    | 168 ft   | 85 ft    |

## Warranty Period Clarifications and Exceptions

### Standard Energy Efficient Exclusion

Applying Standard & Energy Efficient Motors on Variable Frequency Drives is not recommended. VFD related failures on standard and energy efficient motors will not be covered under warranty.

### Vertical Motor Windings

Premium efficient vertical motors without INVERTER GRADE® insulation that are installed using the criteria described in this document and applied in the correct applications shall have a warranty while powered by a VFD for 12 months from date of installation or 18 months from date of manufacturing whichever comes first. See limited warranty page for horizontal motor warranty periods.

### Bearing Exclusion for Thrust Handling Bearings

Bearings used in premium efficient vertical motors, and all thrust handling bearings, that are powered by VFDs without shaft grounding devices or insulated bearings (when required) will not be covered under any warranty for damages caused from being powered by a VFD. All other bearing failure is covered per NMC's standard warranty. An electric motor repair shop approved to service U.S. MOTORS® brand motors must verify that the cause of the bearing failure was not due to Electrical Discharge Machining.

### Medium Voltage and Slow Speed Considerations

Motors that are rated above 700 VAC or that are eight pole and slower require special consideration and installation and are not covered under the warranty guidelines in this document. Motors that are rated above 700VAC have special cable length and voltage differential issues that are specific to the VFD type and manufacture. The motor construction and cost may vary dramatically depending on the VFD topology and construction. Contact your NMC representative with VFD manufacturer name and model type for application and motor construction considerations. Motors that are designed eight pole and slower also require special installation and filters per the drive manufacturer.

\* This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL® & CSA® listings where indicated.

† All marks shown within this document are properties of their respective owners.



## Limited Warranty

Refer to usmotors.com website for the most up-to-date warranty information.

All Nidec Motor Corporation products shall carry the limited warranty of 12 months from the date of installation, not to exceed 18 months from date of manufacture as specified in Section 5 of the Nidec Motor Corporation's Terms and Conditions of Sale except those specifically listed below, or noted within individual product family pages within this catalog.

|                                                                 | Installed / Manufactured | Installed / Manufactured |
|-----------------------------------------------------------------|--------------------------|--------------------------|
| Industrial Motors 140 - 447 Frames                              | Sine Wave Power          | VFD Power                |
| Epact                                                           | 18 / 24 months           | 12 / 18 months           |
| Vertical Standard / Energy (Epact) Efficient                    | 18 / 24 Months           | Not Covered              |
| NEMA <sup>®†</sup> Premium                                      | 36 / 42 months           | 24 / 30 months           |
| Vertical NEMA <sup>®†</sup> Premium                             | 36 / 42 Months           | 12 / 18 Months **        |
| Inverter Duty                                                   | 36 / 42 months           | 36 / 42 months           |
| 841 PLUS <sup>®</sup> & 661 PLUS <sup>®</sup>                   | 60 / 66 months           | 36 / 42 Months           |
| Auto Duty Premium Efficient                                     | 36 / 42 months           | 24 / 30 months           |
| Single Speed NEMA <sup>®†</sup> Premium Efficient Cooling Tower | 36 / 42 months           | 24 / 30 months           |
| ACCU-Torq <sup>®</sup>                                          | 36 / 42 months           | 36 / 42 Months           |
| TITAN <sup>®</sup> Motors - 449 Frame and Larger                | Sine Wave Power          | VFD Power                |
| Premium Efficient Low Voltage (Stock Product)                   | 24 / 30 months           | 18 / 24 months           |
| TITAN <sup>®</sup> TEFC Medium Voltage (Stock Product)          | 36 / 42 months           | Not Covered              |
| TITAN <sup>®</sup> 841                                          | 24 / 30 Months           | 18 / 24 months           |
| Inverter Duty                                                   | 24 / 30 months           | 24 / 30 months           |
| Vertical Premium                                                | 24 / 30 months           | 12 / 18 Months **        |

\*\* Must have Shaft Grounding System for bearings to be covered. See Warranty Guidelines for IHP motors on VFD's for bearing exclusions on vertical motors

## Deferred & Extended Warranty Information

### DEFERRED AND EXTENDED WARRANTIES (OPTIONAL WARRANTIES)

Deferred and extended warranties, defined as follows, apply only to 449 frame and larger horizontal and vertical motors, for use in the continental United States only. All optional warranties must be approved in writing by Nidec Motor Corporation. Contact Marketing for Approval.

#### Deferred Warranty

Nidec Motor Corporation's limited warranty, as set forth in the standard terms and conditions of sale, page x, shall apply subject to the following modification: for a 5% addition to the net price of the motor ("Net Adder"), the warranty period on the motor will be for a period of one year (or more for applicable products) from that date of initial operation, but not in excess of 60 months from the date of shipment subject to the following conditions:

- That within thirty days prior to initial operation, a Nidec Motor Corporation (NMC) Service Engineer, or authorized NMC Service Station, be hired by the Buyer at Buyer's expense, to thoroughly inspect the motor to ascertain that the motor is in "as shipped" condition. This inspection will include but not be limited to:
  - Megger test of winding insulation.
  - Internal inspection to determine that the winding has not been damaged and that the motor is clean and dry.
  - Inspection of the bearings to determine they have not been damaged and there is no water in the oil reservoirs.
  - External inspection to determine that no damage has been made.
- Make any corrections which this inspection shows to be needed because the motor has been in storage or standing idle. These corrections will be made at Buyer's expense if corrections required are due to causes other than defects in material or workmanship.
- That an affidavit certifying that the motor has successfully passed the inspection and is in "as shipped" condition be supplied to NMC by Buyer. Failure to provide NMC with the affidavit certifying that the motor has passed inspection and is in "as shipped" condition will result in voiding the warranty.

#### Extended Warranty

When Buyer's specification requires a warranty period longer than the limited warranty set forth in Nidec Motor Corporation's standard terms and conditions of sale, page x, the net price of each motor will be increased according to the schedule, which follows. Nidec Motor Corporation may accept an order with up to 60 months coverage.

| From Mfg. Date | From Install | Net Adder |
|----------------|--------------|-----------|
| 30 months      | 24 months    | 2%        |
| 42 months      | 36 months    | 3%        |
| 54 months      | 48 months    | 5%        |
| 66 months      | 60 months    | 6%        |

† All marks shown within this document are properties of their respective owners.



# Terms & Conditions of Sale

Nidec Motor Corporation, referred to herein as the "Seller" and the customer or person or entity purchasing goods ("Goods") from Seller is referred to as the "Buyer." These Terms and Conditions, any price list or schedule, quotation, acknowledgment or invoice from Seller relevant to the sale of the Goods and all documents incorporated by specific reference herein or therein, constitute the complete and exclusive statement of the terms of the agreement governing the sale of Goods by Seller to Buyer. Seller's acceptance of Buyer's purchase order is expressly conditional on Buyer's assent to all of Seller's terms and conditions of sale, including terms and conditions that are different from or additional to the terms and conditions of Buyer's purchase order. Buyer's acceptance of or payment for the Goods will manifest Buyer's assent to these Terms and Conditions. Seller reserves the right in its sole discretion to refuse orders.

1. **PRICES:** Prices for Goods, whether specified in Seller's price list or schedule, acknowledgment or written quotation, are subject to change without notice. Such prices shall be adjusted to reflect Seller's prices for Goods as in effect at the time of requested shipment date, and each shipment will be invoiced at such prices. All prices are exclusive of taxes, transportation and insurance, which are to be borne by Buyer.

2. **TAXES:** Any current or future tax or governmental charge (or increase in same) affecting Seller's costs of production, sale, or delivery or shipment, or which Seller is otherwise required to pay or collect in connection with the sale, purchase, delivery, storage, processing, use or consumption of Goods, shall be for Buyer's account and shall be added to the price or billed to Buyer separately, at Seller's election.

3. **TERMS OF PAYMENT:** Unless otherwise specified by Seller, terms are net thirty (30) days from date of Seller's invoice in U.S. currency. Seller shall have the right, among other remedies, either to terminate this agreement or to suspend further performance under this and/or other agreements with Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts. If any payment owed to Seller is not paid when due, it shall bear interest, at a rate to be determined by Seller, which shall not exceed the maximum rate permitted by law, from the date on which it is due until it is paid. Should Buyer's financial responsibility become unsatisfactory to Seller, cash payments or security satisfactory to Seller may be required by Seller for future deliveries and for the Goods theretofore delivered. If such cash payment or security is not provided, in addition to Seller's other rights and remedies, Seller may discontinue deliveries. Buyer hereby grants Seller a security interest in all Goods sold to Buyer by Seller, which security interest shall continue until all such Goods are fully paid for in cash, and Buyer, upon Seller's demand, will execute and deliver to Seller such instruments as Seller requests to protect and perfect such security interest.

4. **SHIPMENT AND DELIVERY:** While Seller will use all reasonable commercial efforts to maintain the delivery date(s) acknowledged or quoted by Seller, all shipping dates are approximate and not guaranteed. Seller reserves the right to make partial shipments. Seller, at its option, shall not be bound to tender delivery of any Goods for which Buyer has not provided shipping instructions and other required information. If the shipment of the Goods is postponed or delayed by Buyer for any reason, Buyer agrees to reimburse Seller for any and all storage costs and other additional expenses resulting therefrom. Risk of loss and legal title to the Goods shall transfer to Buyer for sales in which the end destination of the Goods is outside of the United States immediately after the Goods have passed beyond the territorial limits of the United States. For all other shipments, risk of loss for damage and responsibility shall pass from Seller to Buyer upon delivery to and receipt by carrier at Seller's shipping point. All shipments are F.O.B. Seller's shipping point. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by Buyer directly to the carrier. Shortages or damages must be identified and signed for at the time of delivery.

5. **LIMITED WARRANTY:** Subject to the limitations of Section 6, Seller warrants that the Goods manufactured by Seller, other than those specifically identified below, will be free from defects in material and workmanship and meet Seller's published specifications at the time of shipment under normal use and regular service and maintenance for a period of twelve (12) months from the date of shipment of the Goods by Seller or eighteen (18) months from the date of manufacture, whichever occurs sooner, unless otherwise specified by Seller in writing. Partial Motors of any kind not fully assembled by Seller shall carry no warranty of any kind, express or implied. Products purchased by Seller from a third party for resale to Buyer ("Resale Products") shall carry only the warranty extended by the original manufacturer. THE WARRANTY SET FORTH IN THIS SECTION 5 AND THE WARRANTY SET FORTH IN SECTION 7, ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY SELLER WITH RESPECT TO THE GOODS AND ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE.

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than Seller's), unauthorized modification or alteration, use beyond rated capacity, unsuitable power sources or environmental conditions, improper installation, repair, handling, maintenance or application or any other cause not the fault of Seller. To the extent that Buyer or its agents has supplied specifications, information, representation of operating conditions or other data to Seller in the selection or design of the Goods and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

If within thirty (30) days after Buyer's discovery of any warranty defects within the warranty period, Buyer notifies Seller thereof in writing, Seller shall, at its option and as Buyer's exclusive remedy, repair, correct or replace or refund the purchase price for, that portion of the Goods found by Seller to be defective. Failure by Buyer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Seller shall have the right to require the Buyer to deliver the Goods to Seller's designated repair center or manufacturing facility. All costs associated with dismantling, reinstallation and transportation to and from Seller's designated repair center or manufacturing facility and the time and expense of Seller's personnel and representatives for site travel and diagnosis under this warranty shall be borne by the Buyer. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days from the date of shipment, whichever is longer. Buyer assumes all other responsibility for any loss, damage, or injury to persons or property arising out of, connected with, or resulting from the use of Goods, either alone or in combination with other products/components.

Section 5 applies to any entity or person who may buy, acquire or use the Goods, including any entity or person who obtains the Goods from Buyer, and shall be bound by the limitations therein, including Section 6. Buyer agrees to provide such subsequent transferee conspicuous, written notice of the provisions of Sections 5 and 6.

6. **LIMITATION OF REMEDY AND LIABILITY; THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER (OTHER THAN THE WARRANTY PROVIDED UNDER SECTION 7) SHALL BE LIMITED TO REPAIR, CORRECTION OR REPLACEMENT, OR REFUND OF THE PURCHASE PRICE UNDER SECTION 5.**

SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND THE REMEDIES OF BUYER SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE PAID BY BUYER FOR THE SPECIFIC GOODS PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. BUYER AGREES THAT IN NO EVENT SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment.

It is expressly understood that any technical advice furnished by Seller with respect to the use of the Goods is given without charge, and Seller assumes no obligation or liability for the advice given, or results obtained, all such advice being given and accepted at Buyer's risk.

7. **PATENTS AND COPYRIGHTS:** Subject to the limitations of the second paragraph of Section 6, Seller warrants that the Goods sold, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid U.S. patent or copyright in existence as of the date of shipment. This warranty is given upon the condition that Buyer promptly notifies Seller of any claim or suit involving Buyer in which such infringement is alleged and cooperates fully with Seller and permit Seller to control completely the defense, settlement or compromise of any such allegation of infringement. Seller's warranty as to use patents only applies to infringement arising solely out of the inherent operation according to Seller's specifications and instructions (i) of such Goods, or (ii) of any combination of Goods acquired from Seller in a system

designed by Seller. In the event such Goods are held to infringe such a U.S. patent or copyright in such suit, and the use of such Goods is enjoined, or in the case of a compromise or settlement by Seller, Seller shall have the right, at its option and expense, to procure for Buyer the right to continue using such Goods, or replace them with non-infringing Goods, or modify same to become non-infringing, or grant Buyer a credit for the depreciated value of such Goods and accept return of them. In the event of the foregoing, Seller may also, at its option, cancel the agreement as to future deliveries of such Goods, without liability. No license or rights in any of Seller's intellectual property associated with the Goods is granted hereby.

8. **EXCUSE OF PERFORMANCE:** Seller shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer; war; fire; flood; weather; sabotage; strikes or labor disputes; civil disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or any events or causes beyond Seller's reasonable control. Deliveries or other performance may be suspended for an appropriate period of time or canceled by Seller upon notice to Buyer in the event of any of the foregoing, but the balance of the agreement shall otherwise remain unaffected as a result of the foregoing.

If Seller determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is hindered, limited or made impracticable due to causes set forth in the preceding paragraph, Seller may allocate its available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or material) among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

9. **CANCELLATION:** Buyer may cancel orders only upon reasonable advance written notice and upon payment to Seller of Seller's cancellation charges which include, among other things, all costs and expenses incurred, and, to cover commitments made, by the Seller and a reasonable profit thereon. Seller's determination of such termination charges shall be conclusive.

10. **CHANGES:** Buyer may request changes or additions to the Goods consistent with Seller's specifications and criteria. In the event such changes or additions are accepted by Seller, Seller may revise the price and dates of delivery. Seller reserves the right to change designs and specifications for the Goods without prior notice to Buyer, except with respect to Goods being made to order for Buyer. Seller shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.

11. **NUCLEAR/MEDICAL, GOODS SOLD HEREUNDER ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFE-SUPPORT AND RELATED APPLICATIONS.** Buyer accepts Goods with the foregoing understanding, agrees to communicate the same in writing to any subsequent purchasers or users and to defend, indemnify and hold harmless Seller from any claims, losses, suits, judgments and damages, including incidental and consequential damages, arising from such use, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability.

12. **ASSIGNMENT:** Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Seller, and any such assignment, without such consent, shall be void.

13. **QUANTITY:** Buyer agrees to accept overruns of up to ten percent (10%) of the order on "made-to-order" goods, including parts. Any such additional items shall be priced at the price per item charged for the specific quantity ordered.

14. **REPLACEMENT / SERVICE GOODS:** Upon the cancellation or fulfillment of this order, Seller will have no obligation to sell and Buyer will have no obligation to purchase the Goods sold hereunder, including, but not limited to, the supply of replacement parts for Goods or Goods for Buyer's consumer service division. Seller is not obligated to sell Buyer or its consumer service divisions Goods: (i) for any fixed period of time after production of the Goods supplied hereunder ceases or after the last date of shipment made under this order; or (ii) at any pre-established price to fulfill Buyer's or its consumer service divisions requirements during or after production of the Goods ceases or after the last date of shipment under this order. Seller shall have the absolute right to revise the price of Goods and the terms of sale and to modify or discontinue the sale of the Goods, and such action shall not form the basis of any claim by Buyer against Seller.

15. **TOOLING:** Tool, die, and pattern charges, if any, are in addition to the price of the Goods and are due and payable upon completion of the tooling. All such tools, dies and patterns shall be and remain the property of Seller. Charges for tools, dies, and patterns do not convey to Buyer, title, ownership interest in, or rights to possession or removal, or prevent their use by Seller for other purchasers, except as otherwise expressly provided by Seller and Buyer in writing with reference to this provision.

16. **INSPECTION/TESTING:** Buyer, at its option and expense, may inspect and observe the testing by Seller of the Goods for compliance with Seller's standard test procedures prior to shipment, which inspection and testing shall be conducted at Seller's plant at such reasonable time as is specified by Seller. Any rejection of the Goods must be made promptly by Buyer before shipment. Tests shall be deemed to be satisfactorily completed and the test fully met when the Goods meet Seller's criteria for such procedures.

17. **DRAWINGS:** Seller's prints and drawings (including without limitation, the underlying technology) furnished by Seller to Buyer in connection with this agreement are the property of Seller and Seller retains all rights, including without limitation, exclusive rights of use, licensing and sale. Possession of such prints or drawings does not convey to Buyer any rights or license, and Buyer shall return all copies (in whatever medium) of such prints or drawings to Seller immediately upon request therefor.

18. **EXPORT/IMPORT:** Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States and the European Union, and the jurisdictions in which the Seller and Buyer are established or from which Goods may be supplied, will apply to their receipt and use. In no event shall Buyer use, transfer, release, import, export, Goods in violation of such applicable laws, regulations, orders or requirements.

19. **GENERAL PROVISIONS:** These terms and conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of these terms and conditions. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions shall be binding upon the Seller unless made in writing and signed on its behalf by a duly authorized representative of Seller. No conditions, usage of trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification or additional terms shall be applicable to this agreement by Seller's receipt, acknowledgment, or acceptance of purchase orders, shipping instruction forms, or other documentation containing terms at variance with or in addition to those set forth herein. Any such modifications or additional terms are specifically rejected and deemed a material alteration hereof. If this document shall be deemed an acceptance of a prior offer by Buyer, such acceptance is expressly conditional upon Buyer's assent to any additional or different terms set forth herein. No waiver by either party with respect to any breach or default or of any right or remedy, and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver be expressed in writing and signed by the party to be bound. All typographical or clerical errors made by Seller in any quotation, acknowledgment or publication are subject to correction.

The validity, performance, and all other matters relating to the interpretation and effect of this agreement shall be governed by the law of the state of Missouri without regard to its conflicts of laws principles. Buyer and Seller agree that the proper venue for all actions arising in connection herewith shall be only in Missouri and the parties agree to submit to such jurisdiction. No action, regardless of form, arising out of transactions relating to this contract, may be brought by either party more than two (2) years after the cause of action has accrued. The U.N. Convention on Contracts for the International Sales of Goods shall not apply to this agreement.



# Catalog Numbering System

| C<br>CORRO-DUTY® | 25<br>HP | E<br>Energy Efficient<br>Three Phase | ( ) | 2<br>Pole | B<br>230/460 Volts | ( ) | ( ) | C<br>C-Face | R<br>No Base<br>(Footless) | ( ) |
|------------------|----------|--------------------------------------|-----|-----------|--------------------|-----|-----|-------------|----------------------------|-----|
| 1                | 2        | 3                                    | 4   | 5         | 6                  | 7   | 8   | 9           | 10                         | 11  |

## 1 PRODUCT FAMILY

|     |                                           |
|-----|-------------------------------------------|
| 8P  | 841 PLUS®                                 |
| A   | AUTOMOTIVE DUTY                           |
| AB  | AUTO DUTY BRKLESS BRKMTR                  |
| B   | INVERTER DUTY BLOWER COOLED               |
| BD  | BELT DRIVE FAN                            |
| BF  | BRAKE MOTOR-FAST                          |
| BM  | BRAKE MOTOR                               |
| BMU | UNIMOUNT® BRAKE MOTOR                     |
| BR  | BRAKE MOTOR-FCR                           |
| C   | CORRO-DUTY®                               |
| CA  | CORRO-DUTY® ARCTIC DUTY                   |
| CJ  | CORRO-DUTY® CCP                           |
| CO  | CONDENSER FAN                             |
| D   | ODP GEN. PURPOSE                          |
| DC  | ODP COMPRESSOR                            |
| DD  | DIRECT DRIVE FAN                          |
| DH  | DRY HYDRO                                 |
| DJ  | ODP CCP MOTOR                             |
| E   | ELEVATOR MOTOR - L32 FLANGE               |
| EE  | COMMERCIAL PUMP/GEN. PURPOSE              |
| ELT | E-LINE®                                   |
| EZ  | ELEVATOR MOTOR - Z-FLANGE                 |
| FD  | FARM DUTY                                 |
| FDU | FARM DUTY - ULTRA HIGH TORQUE             |
| FF  | FIREPUMP                                  |
| FP  | FLOOR POLISHER - 1 PHASE                  |
| H   | HOSTILE DUTY                              |
| HA  | HOSTILE DUTY CAST IRON<br>CONDUIT BOX     |
| HC  | HOSTILE DUTY - ALL CAST IRON              |
| HJ  | HOSTILE DUTY CCP                          |
| HO  | HIGH THRUST OPEN                          |
| HS  | HIGH THRUST OPEN - 1 PHASE                |
| HT  | HIGH THRUST TEFC                          |
| HVW | COOLING TOWER TEAO                        |
| HW  | COOLING TOWER TEFC                        |
| J   | CCP                                       |
| JD  | JET PUMP OPEN MOTOR                       |
| JT  | JET PUMP TEFC MOTOR                       |
| KT  | FINISHED GOODS KITS                       |
| LD  | L.S. BUYOUT ODP                           |
| LT  | L.S. BUYOUT TEFC                          |
| M   | IEC METRIC                                |
| NO  | NORMAL THRUST OPEN                        |
| NT  | NORMAL THRUST TEFC                        |
| PD  | PEDESTAL FAN                              |
| PF  | POWER FACTOR CORR CAPS                    |
| PT  | POWER TOOL                                |
| PW  | PRESSURE WASHER                           |
| S   | UNIMOUNT® ROLLED STEEL                    |
| T   | TEFC                                      |
| TA  | TEAO                                      |
| TN  | TENV                                      |
| U   | UNIMOUNT®                                 |
| UI  | UNIMERSE®                                 |
| UJ  | UT CCP                                    |
| UN  | UT TENV                                   |
| UV  | UT TEAO                                   |
| VB  | VECTOR BLOWER COOLED                      |
| VN  | VECTOR NON-VENT                           |
| WD  | WASHDOWN DUTY                             |
| WDP | WASHDOWN DUTY PAINT FREE                  |
| WDS | WASHDOWN DUTY ALL STAINLESS               |
| WI  | WEATHER PROTECTED TYPE I                  |
| WII | WEATHER PROTECTED TYPE II                 |
| X   | HAZ. LOCATION DUAL LABEL                  |
| XA  | HAZ. LOCATION AUTOMOTIVE DUTY             |
| XC  | HAZ. LOCATION DUAL LABEL<br>CORRO-DUTY®   |
| XJ  | HAZ. LOCATION DUAL LABEL CCP              |
| XS  | HAZ. LOCATION DUAL STEEL FRAME            |
| Y   | HAZ. LOCATION SINGLE LABEL                |
| YC  | HAZ. LOCATION SINGLE LABEL<br>CORRO-DUTY® |
| YS  | HAZ. LOCATION SINGLE LABEL CCP            |

## 2 HP

|      |         |
|------|---------|
| 00   | SPECIAL |
| 0110 | 1/10    |
| 0112 | 1/12    |
| 18   | 1/8     |
| 16   | 1/6     |
| 14   | 1/4     |
| 13   | 1/3     |
| 12   | 1/2     |
| 34   | 3/4     |
| 1    | 1       |
| 32   | 1-1/2   |
| 2    | 2       |
| 3    | 3       |
| 5    | 5       |
| 7    | 7-1/2   |
| 10   | 10      |
| 15   | 15      |
| 20   | 20      |
| 25   | 25      |
| 30   | 30      |
| 40   | 40      |
| 50   | 50      |
| 60   | 60      |
| 75   | 75      |
| 100  | 100     |
| 125  | 125     |
| 150  | 150     |
| 200  | 200     |
| etc. |         |

## 3 ELECTRICAL

|   |                         |
|---|-------------------------|
| A | PERM SPLIT CAP (1Ø)     |
| B | SPLIT PHASE (1Ø)        |
| C | CAP START (1Ø)          |
| D | CONSTANT TORQ 2WDG (3Ø) |
| E | ENERGY EFFICIENT (3Ø)   |
| F | CONSTANT HP 1WDG (3Ø)   |
| G | CONSTANT HP 2WDG (3Ø)   |
| K | VAR TORQ 2WDG (3Ø)      |
| L | VAR TORQ 1WDG (3Ø)      |
| P | PREMIUM EFFICIENT (3Ø)  |
| Q | DESIGN C (3Ø)           |
| R | CONSTANT TORQ 1WDG (3Ø) |
| S | STD EFFICIENT (3Ø)      |
| T | INV DUTY CON TORQ (3Ø)  |
| V | INV DUTY VAR TORQ (3Ø)  |

DEFAULT MULTI-SPEED IS STD EFF  
P&E PRECEDING MULTI-SPD ARE  
P PREM EFF  
E ENERGY EFF

## 4 SECOND ELECTRICAL

FRACTIONAL & TITAN® WHERE REQUIRED

|   |                                  |
|---|----------------------------------|
| A | AUTO PROTECT                     |
| M | MANUAL PROTECT                   |
| R | INSTANT REVERSING GATE<br>& DOOR |
| T | TWO COMPARTMENT                  |
| Y | TITAN® F RISE @ 1.0 SF           |

## 5 POLES

|    |       |
|----|-------|
| 1  | 2P    |
| 2  | 4P    |
| 3  | 6P    |
| 4  | 8P    |
| 5  | 10P   |
| 6  | 12P   |
| 7  | 14P   |
| 8  | 16P   |
| 9  | 4/8P  |
| 10 | 4/6P  |
| 12 | 2/4P  |
| 26 | 4/12P |
| 34 | 6/8P  |
| 36 | 6/12P |

## 6 VOLTAGES

|   |                             |
|---|-----------------------------|
| 2 | 2300                        |
| A | 208-230/460 or 200-230/460  |
| B | 230/460                     |
| C | 460                         |
| D | 208-230/460 & 190/380       |
| E | 230/460 & 190/380           |
| F | 460/380                     |
| G | 575                         |
| H | 200                         |
| I | 90                          |
| J | 115/208-230                 |
| K | 230 & 208-230               |
| L | 110/220                     |
| M | 220/440 & 208-220/440       |
| N | 115                         |
| P | 115/230                     |
| Q | 180 (DC) & 190/380 (DC)     |
| R | 220/380-440 (Y-DELTA)       |
| S | 460 PWS                     |
| T | 208/230                     |
| U | 230/460 & 190/380 & 220/415 |
| V | 4000                        |
| W | 2300/4000                   |
| X | 200/400                     |
| Y | 220/415                     |
| Z | OTHER                       |

## 7 FRAME

DEFAULT 56 FRAME  
(FRACTIONAL 3Ø & ALL 1Ø)  
NEMA FRAME ASSIGNMENT  
(INTEGRAL HP)  
FRACTIONAL 3Ø & ALL 1Ø  
4 = 48  
42 = 42  
14 = 140  
18 = 180  
21 = 210  
H = SPECIAL NEMA 56H  
INTEGRAL HP 3Ø  
F = DOWN FRAME  
G = UPFRAME  
AIR CIRCULATORS/FANS  
20 = 20" CIRC. HEAD DIA.  
24 = 24" CIRC. HEAD DIA.  
30 = 30" CIRC. HEAD DIA.

## 8 SHAFT (1ST DIGIT)

|         |                                         |
|---------|-----------------------------------------|
| DEFAULT | T SHAFT; STD 48 OR 56<br>VSS (VERTICAL) |
| S       | SHORT SHAFT                             |
| L       | VHS                                     |
| M       | JM                                      |
| P       | JP                                      |
| J       | WEST COAST CCP                          |
| T       | TM SHAFT                                |
| U       | JMV                                     |
| V       | JPV                                     |
| Z       | SPECIAL                                 |

## 9 FLANGE (2ND DIGIT)

|         |                    |
|---------|--------------------|
| DEFAULT | NONE (HORZ)        |
|         | P-BASE (VERT)      |
| A       | SLEEVE BEARING     |
| B       | ROLLER BEARING     |
| C       | C-FACE             |
| D       | D-FLANGE           |
| K       | TCH (SPECIAL 'AK') |
| Q       | SQUARE FLANGE      |
| Y       | SPECIAL            |

## 10 BASE (3RD DIGIT)

|         |                    |
|---------|--------------------|
| DEFAULT | F-1 RIGID BASE     |
| R       | NO BASE (FOOTLESS) |
| 2       | F-2 ASSEMBLY       |
| 3       | F-0 ASSEMBLY       |
| 5       | W-5 ASSEMBLY       |
| 6       | W-6 ASSEMBLY       |
| 7       | YOKE MOUNT         |
| 8       | W-8 ASSEMBLY       |
| 9       | RESILIENT BASE     |
| E       | P-BASE 10" BD      |
| F       | P-BASE 12" BD      |
| G       | P-BASE 16.5" BD    |
| H       | P-BASE 20" BD      |
| J       | P-BASE 24.5" BD    |

## 11 SPECIAL FEATURES (4TH DIGIT)

|    |                          |
|----|--------------------------|
| N  | NO NRR (SRC) (VERT)      |
| S  | SPECIAL MOUNTING         |
| T  | TUNGSTEN SEAL (VERT)     |
| X  | EXTRA HIGH THRUST (VERT) |
| -C | CONVERSION               |
| -P | PRODUCTION               |





# General Purpose Motors



**Horsepower:** 1 – 500 HP

**Frame Sizes:** 143 through 5811

**Phase:** Three Phase

**RPM:** 3600, 1800, 1200 or 900 RPM

**Voltage:**

- 200
- 208-230/460
- 230/460
- 460
- 575 Volts

**Enclosure:**

- Open Dripproof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)

**Service Factor:** 1.15 SF or greater

**Insulation:** Class B or F Insulation

**Efficiency:** Premium Efficient, NEMA<sup>®†</sup> Premium Efficient or EPAct

**Nameplate:** "CE" Mark on nameplate (180 Frame or larger)

**Agency:** UL<sup>®†</sup> Recognized and CSA<sup>®†</sup> Certified

**WORLD MOTOR<sup>®</sup> Features:**

- Both 60 Hz and 50 Hz operations (without derating motor)
- 250 Frame and larger ratings suitable for wye-start delta run or across-the-line starting



Open Dripproof  
Motors



UNIMOUNT<sup>®</sup>  
Motors



Hostile Duty  
Motors



<sup>†</sup> All marks shown within this document are properties of their respective owners.

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

## APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

## FEATURES:

### UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

### STEEL EDGE™ (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame and Up)

| HP  | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes   |
|-----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|---------|
| 1/4 | 1800 | 208-230/460 | 56    | T14S2A         | \$224   | DS-3RST         | 1.15 | 10.9              | 26             | 70.0           | 1.1-1.1/5      | 19,103  |
|     | 1200 | 208-230/460 | 56    | T14S3A         | \$294   | DS-3RST         | 1.15 | 11.9              | 32             | -              | 1.4-1.5/76     | 103     |
| 1/3 | 1800 | 208-230/460 | 56    | T13S2A         | \$255   | DS-3RST         | 1.15 | 11.4              | 26             | -              | 1.3-1.3/0.6    | 103     |
| 1/2 | 3600 | 208-230/460 | 48    | T12S1D4        | \$278   | DS-3RST         | 1.00 | 10.7              | 19             | -              | 1.8-1.8/0.90   | 103     |
|     | 3600 | 208-230/460 | 56    | T12S1A         | \$278   | DS-3RST         | 1.15 | 10.9              | 32             | -              | 2.0-2.0/1.0    | 103     |
|     | 1800 | 208-230/460 | 56    | T12S2A         | \$278   | DS-3RST         | 1.15 | 11.9              | 21             | -              | 1.8-1.8/0.9    | 103     |
|     | 1800 | 575         | 56    | T12S2G         | \$278   | DS-3RST         | 1.15 | 11.9              | 26             | -              | 0.80           | 103     |
|     | 1200 | 208-230/460 | 56    | T12S3A         | \$357   | DS-3RST         | 1.15 | 11.9              | 32             | -              | 2.2-2.3/1.1    | 103     |
|     | 1200 | 575         | 56    | T12S3G         | \$357   | DS-3RST         | 1.15 | 11.9              | 32             | -              | 0.85           | 103     |
|     | 3600 | 208-230/460 | 56    | T34S1A         | \$290   | DS-3RST         | 1.15 | 11.9              | 32             | -              | 2.5-2.5/1.2    | 103     |
| 3/4 | 1800 | 208-230/460 | 56    | T34S2A         | \$299   | DS-3RST         | 1.15 | 11.9              | 23             | -              | 3.0-3.0/1.5    | 103     |
|     | 1800 | 575         | 56    | T34S2G         | \$299   | DS-3RST         | 1.15 | 11.9              | 26             | -              | 1.1            | 37,103  |
|     | 1200 | 208-230/460 | 143T  | T34S3B14       | \$422   | DS-3RST         | 1.15 | 12.8              | 32             | 75.5           | 3.4-3.5/1.7    | 103     |
|     | 1200 | 208-230/460 | 56H   | T34S3AH        | \$422   | DS-3RST         | 1.15 | 12.9              | 32             | -              | 3.1-3.2/1.6    | 103     |
|     | 3600 | 208-230/460 | 56    | U1E1D          | \$374   | DS-3RST         | 1.25 | 12.5              | 30             | 80.0           | 3-2.7/1.4      | 03,NNP  |
| 1   | 3600 | 208-230/460 | 56    | T1P1A          | \$327   | DS-3RST         | 1.25 | 11.9              | 32             | 77.0           | 3.4-3.2/1.6    |         |
|     | 3600 | 575         | 56    | U1E1G          | \$374   | DS-3RST         | 1.25 | 12.5              | 30             | 80.0           | 1.1            | NNP     |
|     | 1800 | 200         | 143T  | U1P2H          | \$423   | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 3.4            |         |
|     | 1800 | 208-230/460 | 143T  | U1P2D          | \$423   | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|     | 1800 | 208-230/460 | 56H   | T1S2AH         | \$330   | DS-3RST         | 1.15 | 12.4              | 30             | -              | 3.3-3.2/1.5    | 103,NNP |
|     | 1800 | 575         | 143T  | U1P2G          | \$423   | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 1.1            |         |
|     | 1800 | 575         | 56H   | T1S2GH         | \$330   | DS-3RST         | 1.15 | 12.4              | 26             | 81.5           | 1.3            | 103,NNP |
|     | 1200 | 200         | 145T  | U1P3H          | \$575   | DS-3RST         | 1.25 | 12.8              | 35             | 82.5           | 4.1            |         |
|     | 1200 | 208-230/460 | 145T  | U1P3D          | \$575   | DS-3RST         | 1.25 | 12.8              | 35             | 82.5           | 3.6-3.5/1.8    | 03      |
|     | 1200 | 208-230/460 | 56H   | T1S3A          | \$449   | DS-3RST         | 1.15 | 13.4              | 32             | 83.0           | 3.7-3.8/1.9    | 103,NNP |
|     | 1200 | 575         | 145T  | U1P3G          | \$575   | DS-3RST         | 1.25 | 12.8              | 35             | 82.5           | 1.4            |         |
|     | 900  | 208-230/460 | 182T  | U1E4D          | \$1,049 | DS-3AL          | 1.25 | 16.5              | 60             | 74.0           | 4.4-4.7/2.4    | 03,NNP  |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 19 Also rated for 190/380, 220/415 volt 50 Hz at 1.0 Service Factor

Note 37 Q-3 leads for across-the-line start

Note 103 Does not accept brake kit

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

(continued)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes      |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|------------|
| 1 1/2 | 3600 | 200         | 143T  | U32P1H         | \$488   | DS-3RST         | 1.25 | 12.8              | 30             | 84.0           | 4.4            |            |
|       | 3600 | 208-230/460 | 143T  | U32P1D         | \$488   | DS-3RST         | 1.25 | 12.8              | 30             | 84.0           | 4.2-3.9/1.9    | 03         |
|       | 3600 | 208-230/460 | 56H   | T32S1AH        | \$381   | DS-3RST         | 1.15 | 12.4              | 32             | 80.0           | 4.7-4.5/2.2    | 103, NNP   |
|       | 3600 | 208-230/460 | 56H   | T32P1AH        | \$438   | DS-3RST         | 1.15 | 12.9              | 32             | 84.0           | 4.9-5.0/2.5    |            |
|       | 3600 | 575         | 143T  | U32P1G         | \$488   | DS-3RST         | 1.25 | 12.8              | 30             | 84.0           | 1.6            |            |
|       | 1800 | 200         | 145T  | U32P2H         | \$469   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 4.7            |            |
|       | 1800 | 208-230/460 | 145T  | U32P2D         | \$469   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 4.5-4.3/2.1    | 03         |
|       | 1800 | 208-230/460 | 56H   | T32S2AH        | \$366   | DS-3RST         | 1.15 | 12.9              | 26             | 80.0           | 5.1-5.2/2.6    | 103, NNP   |
|       | 1800 | 575         | 145T  | U32P2G         | \$469   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 1.7            |            |
|       | 1200 | 200         | 182T  | U32P3H         | \$751   | DS-3AL          | 1.25 | 16.5              | 60             | 87.5           | 5.4            |            |
|       | 1200 | 208-230/460 | 182T  | S32P3A         | \$728   | DS-3RST         | 1.15 | 14.9              | 40             | 87.5           | 5.1-5.2/2.6    | 04, 16, 26 |
|       | 1200 | 208-230/460 | 182T  | U32P3D         | \$751   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 4.8-4.7/2.3    |            |
|       | 1200 | 208-230/460 | 56    | T32S3AH        | \$526   | DS-3RST         | 1.15 | 14.4              | 32             | -              | 5.4-5.3/2.6    | 103, NNP   |
|       | 1200 | 575         | 182T  | U32P3G         | \$751   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 1.8            |            |
|       | 900  | 208-230/460 | 184T  | U32E4D         | \$1,164 | DS-3AL          | 1.25 | 17.3              | 70             | 78.5           | 6.2-6.6/3.3    | NNP        |
| 2     | 3600 | 200         | 145T  | U2P1H          | \$580   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 5.6            |            |
|       | 3600 | 208-230/460 | 145T  | U2P1D          | \$580   | DS-3RST         | 1.25 | 12.8              | 35             | 85.5           | 5.4-4.9/2.5    | 03         |
|       | 3600 | 208-230/460 | 56H   | T2S1AH         | \$452   | DS-3RST         | 1.15 | 12.4              | 27             | 80.0           | 6.0-5.4/2.7    | 103, NNP   |
|       | 3600 | 208-230/460 | 56H   | T2P1AH         | \$520   | DS-3RST         | 1.15 | 12.4              | 39             | 85.5           | 5.1/2.6        |            |
|       | 3600 | 208-230/460 | 56HZ  | T2E1AHZ        | \$677   | DS-3F           | 1.25 | 13.3              | 32             | 84.0           | 6.3-6.1/3.1    | 103, NNP   |
|       | 3600 | 575         | 145T  | U2P1G          | \$580   | DS-3RST         | 1.25 | 12.8              | 40             | 85.5           | 2              |            |
|       | 3600 | 575         | 56H   | T2S1G          | \$452   | DS-3RST         | 1.15 | 12.4              | 32             | 80.0           | 2.3            | 103, NNP   |
|       | 1800 | 200         | 145T  | U2P2H          | \$514   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 6.2            |            |
|       | 1800 | 208-230/460 | 145T  | U2P2D          | \$514   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 5.9-5.7/2.8    | 03         |
|       | 1800 | 208-230/460 | 56H   | T2S2AH         | \$401   | DS-3RST         | 1.15 | 12.9              | 26             | 78.0           | 7.2-7.1/3.4    | 103, NNP   |
|       | 1800 | 208-230/460 | 56H   | T2P2AH         | \$461   | DS-3RST         | 1.15 | 13.4              | 42             | 86.5           | 6.0/3.0        |            |
|       | 1800 | 208-230/460 | 56HZ  | T2E2AHZ        | \$458   | DS-3RST         | 1.25 | 13.8              | 26             | 84.0           | 6-5.9/3        | 103, NNP   |
|       | 1800 | 208-230/460 | 56HZ  | T2P2AHZ        | \$514   | DS-3RST         | 1.25 | 14.3              | 42             | 86.5           | 6.2-6.0/3.0    |            |
|       | 1800 | 575         | 145T  | U2P2G          | \$514   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 2.3            |            |
|       | 1200 | 200         | 184T  | U2P3H          | \$836   | DS-3AL          | 1.25 | 17.3              | 70             | 88.5           | 7.2            |            |
|       | 1200 | 208-230/460 | 184T  | S2P3A          | \$811   | DS-3RST         | 1.15 | 14.9              | 74             | 88.5           | 6.4-6.2/3.1    | 04, 16, 26 |
|       | 1200 | 208-230/460 | 184T  | U2P3D          | \$836   | DS-3AL          | 1.25 | 17.3              | 70             | 88.5           | 6.4-6.2/3.1    |            |
|       | 1200 | 575         | 184T  | U2P3G          | \$836   | DS-3AL          | 1.25 | 17.3              | 70             | 88.5           | 2.5            |            |
|       | 900  | 208-230/460 | 213T  | U2E4D          | \$1,296 | DS-3AL          | 1.25 | 18.6              | 90             | 82.5           | 7.9-7.6/3.8    | 03, NNP    |
| 3     | 3600 | 200         | 145T  | U3P1HF         | \$605   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 8.3            |            |
|       | 3600 | 200         | 182T  | U3P1H          | \$767   | DS-3AL          | 1.25 | 16.5              | 60             | 86.5           | 8.8            |            |
|       | 3600 | 208-230/460 | 145T  | U3P1DF         | \$605   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 8.1-7.2/3.6    | 03         |
|       | 3600 | 208-230/460 | 182T  | S3P1A          | \$637   | DS-3RST         | 1.15 | 14.9              | 50             | 86.5           | 8.4-7.7/3.9    | 04, 16, 26 |
|       | 3600 | 208-230/460 | 182T  | U3P1D          | \$767   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 8.4-7.8/3.9    |            |
|       | 3600 | 208-230/460 | 56HZ  | U3E1AHZ        | \$538   | DS-3RST         | 1.25 | 13.8              | 32             | 86.0           | 8.5-7.3/3.6    | 103, NNP   |
|       | 3600 | 208-230/460 | 56HZ  | U3P1AHZ        | \$605   | DS-3RST         | 1.25 | 13.8              | 40             | 86.5           | 6.7/3.4        |            |
|       | 3600 | 575         | 145T  | U3P1GF         | \$605   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 2.9            |            |
|       | 3600 | 575         | 182T  | U3P1G          | \$767   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 3.1            |            |
|       | 1800 | 200         | 182T  | U3P2H          | \$678   | DS-3AL          | 1.25 | 16.5              | 60             | 89.5           | 9              |            |
|       | 1800 | 208-230/460 | 56H   | T2P2AH         | \$461   | DS-3RST         | 1.15 | 10.4              | 42             | 86.5           | 6.2-6.0/3.0    |            |
|       | 1800 | 208-230/460 | 182T  | S3P2A          | \$637   | DS-3RST         | 1.15 | 14.9              | 85             | 89.5           | 8.4-7.8/3.9    | 04, 16, 26 |
|       | 1800 | 208-230/460 | 182T  | U3P2D          | \$678   | DS-3AL          | 1.25 | 16.5              | 60             | 89.5           | 8.4-7.8/3.9    |            |
|       | 1800 | 575         | 182T  | U3P2G          | \$678   | DS-3AL          | 1.25 | 16.1              | 60             | 89.5           | 3.2            |            |
|       | 1200 | 200         | 213T  | U3P3H          | \$1,036 | DS-3AL          | 1.25 | 19.1              | 110            | 89.5           | 9.9            |            |
|       | 1200 | 208-230/460 | 213T  | S3P3A          | \$1,018 | DS-3RST         | 1.15 | 18.9              | 130            | 89.5           | 9.2-8.6/4.3    | 04, 16, 26 |
|       | 1200 | 208-230/460 | 213T  | U3P3D          | \$1,036 | DS-3AL          | 1.25 | 18.6              | 115            | 89.5           | 9.3-8.6/4.3    |            |
|       | 1200 | 575         | 213T  | U3P3G          | \$1,036 | DS-3AL          | 1.25 | 18.6              | 115            | 89.5           | 3.4            |            |
|       | 900  | 208-230/460 | 215T  | U3E4D          | \$1,606 | DS-3AL          | 1.25 | 20.1              | 125            | 84.0           | 11.7-11.1/5.5  | 03, NNP    |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR® features

Note 103 Does not accept brake kit

Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

(continued)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 5     | 3600 | 200         | 184T  | U5P1H          | \$962   | DS-3AL          | 1.25 | 16.5              | 70             | 88.5           | 14             |           |
|       | 3600 | 208-230/460 | 184T  | S5P1A          | \$733   | DS-3RST         | 1.15 | 15.9              | 65             | 88.5           | 13.6-12.1/6.1  | 04,16,26  |
|       | 3600 | 208-230/460 | 184T  | U5P1D          | \$962   | DS-3AL          | 1.25 | 16.9              | 75             | 88.5           | 13.4-12.2/6.1  |           |
|       | 3600 | 575         | 184T  | U5P1G          | \$962   | DS-3AL          | 1.25 | 16.1              | 75             | 88.5           | 4.9            |           |
|       | 1800 | 200         | 184T  | U5P2H          | \$788   | DS-3AL          | 1.25 | 17.3              | 80             | 89.5           | 14.2           |           |
|       | 1800 | 208-230/460 | 184T  | S5P2A          | \$733   | DS-3RST         | 1.15 | 15.9              | 72             | 89.5           | 13.5-12.5/6.2  | 04,16,26  |
|       | 1800 | 208-230/460 | 184T  | U5P2D          | \$788   | DS-3AL          | 1.25 | 17.3              | 70             | 90.2           | 13.6-12.3/6.2  |           |
|       | 1800 | 575         | 184T  | U5P2G          | \$788   | DS-3AL          | 1.15 | 16.1              | 70             | 89.5           | 5.1            |           |
|       | 1200 | 200         | 215T  | U5P3H          | \$1,483 | DS-3AL          | 1.25 | 20.6              | 135            | 89.5           | 15.9           |           |
|       | 1200 | 208-230/460 | 215T  | S5P3A          | \$1,410 | DS-3RST         | 1.15 | 18.9              | 135            | 89.5           | 15-14.1/7      | 04,16,26  |
|       | 1200 | 208-230/460 | 215T  | U5P3D          | \$1,483 | DS-3AL          | 1.25 | 20.1              | 140            | 90.2           | 15-14/7        |           |
|       | 1200 | 575         | 215T  | U5P3G          | \$1,483 | DS-3AL          | 1.25 | 20.1              | 140            | 89.5           | 5.6            |           |
|       | 900  | 200         | 254T  | U5E4H          | \$2,299 | DS-3AL          | 1.25 | 23.9              | 192            | 85.5           | 17.3           | 02,NNP    |
|       | 900  | 208-230/460 | 254T  | U5E4D          | \$2,299 | DS-3AL          | 1.25 | 23.9              | 192            | 85.5           | 16.4-15.4/7.7  | 02,03,NNP |
|       | 900  | 575         | 254T  | U5E4G          | \$2,299 | DS-3AL          | 1.25 | 23.9              | 192            | 86.5           | 6.1            | 02,NNP    |
| 7 1/2 | 3600 | 200         | 213T  | U7P1H          | \$1,192 | DS-3AL          | 1.25 | 19.1              | 105            | 90.2           | 20.6           |           |
|       | 3600 | 208-230/460 | 184T  | U7P1AF         | \$1,074 | DS-3AL          | 1.15 | 17.3              | 70             | 89.5           | 19.9-17.7/8.9  |           |
|       | 3600 | 208-230/460 | 213T  | S7P1A          | \$1,074 | DS-3RST         | 1.15 | 18.9              | 114            | 89.5           | 19.9-17.9/9    | 04,16,26  |
|       | 3600 | 208-230/460 | 213T  | U7P1D          | \$1,192 | DS-3AL          | 1.25 | 19.1              | 105            | 91.0           | 19.9-17.8/8.9  | 03        |
|       | 3600 | 575         | 213T  | U7P1G          | \$1,192 | DS-3AL          | 1.15 | 18.6              | 105            | 89.5           | 7.5            |           |
|       | 1800 | 200         | 213T  | U7P2H          | \$1,078 | DS-3AL          | 1.15 | 19.1              | 105            | 91.7           | 20.8           |           |
|       | 1800 | 208-230/460 | 213T  | S7P2A          | \$1,023 | DS-3RST         | 1.15 | 18.9              | 90             | 91.7           | 20-18.1/9.1    | 04,16,26  |
|       | 1800 | 208-230/460 | 213T  | U7P2D          | \$1,078 | DS-3AL          | 1.25 | 18.6              | 125            | 91.7           | 20-18.2/9.1    |           |
|       | 1800 | 575         | 213T  | U7P2G          | \$1,078 | DS-3AL          | 1.25 | 18.6              | 115            | 91.7           | 7.2            |           |
|       | 1200 | 200         | 254T  | U7P3H          | \$1,979 | DS-3AL          | 1.15 | 24.4              | 180            | 91.7           | 21.8           |           |
|       | 1200 | 208-230/460 | 254T  | U7P3D          | \$1,979 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 20.6-19/9.5    |           |
|       | 1200 | 575         | 254T  | U7P3G          | \$1,979 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 7.6            |           |
|       | 900  | 208-230/460 | 256T  | U7E4D          | \$3,067 | DS-3AL          | 1.25 | 25.6              | 312            | 86.5           | 23.8-22.2/11.1 | 02,03,NNP |
|       | 900  | 575         | 256T  | U7E4G          | \$3,067 | DS-3AL          | 1.25 | 25.6              | 312            | 86.5           | 8.8            | 02,NNP    |
| 10    | 3600 | 200         | 215T  | U10P1H         | \$1,397 | DS-3AL          | 1.25 | 21.6              | 125            | 90.2           | 27             |           |
|       | 3600 | 208-230/460 | 215T  | S10P1A         | \$1,272 | DS-3RST         | 1.15 | 18.9              | 128            | 90.2           | 26.5-23.5/11.7 | 04,16,26  |
|       | 3600 | 208-230/460 | 215T  | U10P1D         | \$1,397 | DS-3AL          | 1.25 | 20.1              | 130            | 91.0           | 26.4-23.5/11.8 |           |
|       | 3600 | 575         | 215T  | U10P1G         | \$1,397 | DS-3AL          | 1.25 | 20.1              | 130            | 91.7           | 9.4            |           |
|       | 1800 | 200         | 215T  | U10P2H         | \$1,302 | DS-3AL          | 1.25 | 20.6              | 133            | 91.7           | 27.5           |           |
|       | 1800 | 208-230/460 | 215T  | S10P2A         | \$1,211 | DS-3RST         | 1.15 | 18.9              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26  |
|       | 1800 | 208-230/460 | 215T  | U10P2D         | \$1,302 | DS-3AL          | 1.25 | 20.1              | 133            | 91.7           | 26.5-23.9/12   |           |
|       | 1800 | 575         | 215T  | U10P2G         | \$1,302 | DS-3AL          | 1.25 | 20.1              | 140            | 91.7           | 9.6            |           |
|       | 1200 | 200         | 256T  | U10P3H         | \$2,390 | DS-3AL          | 1.25 | 26.1              | 230            | 91.7           | 28.2           |           |
|       | 1200 | 208-230/460 | 256T  | U10P3D         | \$2,390 | DS-3AL          | 1.25 | 26.1              | 230            | 91.7           | 27.1-24.6/12.3 |           |
|       | 1200 | 575         | 256T  | U10P3G         | \$2,390 | DS-3AL          | 1.25 | 26.1              | 230            | 91.7           | 9.8            |           |
| 15    | 3600 | 200         | 254T  | U15P1H         | \$1,999 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 40             | 02        |
|       | 3600 | 208-230/460 | 215T  | U15P1AF        | \$1,698 | DS-3AL          | 1.25 | 20.6              | 120            | 91.0           | 40-35/17.4     |           |
|       | 3600 | 208-230/460 | 254T  | U15P1D         | \$1,999 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 39-35/17.5     |           |
|       | 3600 | 575         | 254T  | U15P1G         | \$1,999 | DS-3AL          | 1.25 | 24.4              | 185            | 91.0           | 14.1           |           |
|       | 1800 | 200         | 254T  | U15P2H         | \$1,798 | DS-3AL          | 1.25 | 24.4              | 180            | 92.4           | 42             |           |
|       | 1800 | 208-230/460 | 254T  | U15P2D         | \$1,798 | DS-3AL          | 1.25 | 24.4              | 180            | 92.4           | 40-37/18.4     |           |
|       | 1800 | 575         | 254T  | U15P2G         | \$1,798 | DS-3AL          | 1.25 | 24.4              | 180            | 92.4           | 14.6           |           |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR® features

Note NNP Non-NEMA® Premium Rating

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

(continued)

SE

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 20 | 3600 | 200         | 256T  | U20P1H         | \$2,475 | DS-3AL          | 1.25 | 26.1              | 230            | 91.0           | 53             | 02    |
|    | 3600 | 208-230/460 | 256T  | U20P1D         | \$2,475 | DS-3AL          | 1.25 | 26.1              | 230            | 91.0           | 53-46/23.1     | 02,03 |
|    | 3600 | 575         | 256T  | U20P1G         | \$2,475 | DS-3AL          | 1.25 | 26.1              | 230            | 91.0           | 18.5           | 02    |
|    | 1800 | 200         | 256T  | U20P2H         | \$2,216 | DS-3AL          | 1.25 | 25.6              | 250            | 93.0           | 54             |       |
|    | 1800 | 208-230/460 | 256T  | U20P2D         | \$2,216 | DS-3AL          | 1.25 | 26.1              | 230            | 93.0           | 53-47/23.5     |       |
|    | 1800 | 575         | 256T  | U20P2G         | \$2,216 | DS-3AL          | 1.25 | 26.1              | 250            | 93.0           | 19             |       |
| 25 | 3600 | 200         | 284T  | U25P1H         | \$3,036 | DS-3AL          | 1.25 | 28.7              | 250            | 91.7           | 65             |       |
|    | 3600 | 200         | 284TS | U25P1HS        | \$3,036 | DS-3AL          | 1.25 | 27.3              | 280            | 91.7           | 65             |       |
|    | 3600 | 208-230/460 | 284T  | U25P1D         | \$3,036 | DS-3AL          | 1.25 | 28.7              | 250            | 91.7           | 65-57/28.4     |       |
|    | 3600 | 208-230/460 | 284TS | U25P1DS        | \$3,036 | DS-3AL          | 1.25 | 27.3              | 250            | 91.7           | 65-57/28.4     |       |
|    | 3600 | 575         | 284T  | U25P1G         | \$3,036 | DS-3AL          | 1.25 | 28.7              | 250            | 91.7           | 22.7           |       |
|    | 3600 | 575         | 284TS | U25P1GS        | \$3,036 | DS-3AL          | 1.25 | 27.3              | 250            | 91.7           | 22.7           |       |
|    | 1800 | 200         | 284T  | U25P2H         | \$2,659 | DS-3AL          | 1.25 | 28.7              | 290            | 93.6           | 67             |       |
|    | 1800 | 200         | 284TS | U25P2HS        | \$2,659 | DS-3AL          | 1.25 | 27.3              | 290            | 93.6           | 67             |       |
|    | 1800 | 208-230/460 | 284T  | U25P2D         | \$2,659 | DS-3AL          | 1.25 | 28.7              | 280            | 93.6           | 65-59/29.3     | 03    |
|    | 1800 | 208-230/460 | 284TS | U25P2DS        | \$2,659 | DS-3AL          | 1.15 | 27.3              | 280            | 93.6           | 65-59/29.3     |       |
|    | 1800 | 575         | 284T  | U25P2G         | \$2,659 | DS-3AL          | 1.25 | 28.7              | 280            | 93.6           | 23.4           |       |
|    | 1800 | 575         | 284TS | U25P2GS        | \$2,659 | DS-3AL          | 1.25 | 27.3              | 290            | 93.6           | 23.4           |       |
| 30 | 1800 | 200         | 286T  | U30P2H         | \$3,101 | DS-3AL          | 1.25 | 28.3              | 325            | 93.6           | 81             |       |
|    | 1800 | 200         | 286TS | U30P2HS        | \$3,101 | DS-3AL          | 1.25 | 26.9              | 325            | 93.6           | 81             |       |
|    | 1800 | 208-230/460 | 286T  | U30P2D         | \$3,101 | DS-3AL          | 1.25 | 28.7              | 325            | 93.6           | 78-70/35       |       |
|    | 1800 | 208-230/460 | 286TS | U30P2DS        | \$3,101 | DS-3AL          | 1.25 | 27.3              | 325            | 93.6           | 78-70/35       |       |
|    | 1800 | 575         | 286T  | U30P2G         | \$3,101 | DS-3AL          | 1.25 | 28.7              | 325            | 93.6           | 28.1           |       |
|    | 1800 | 575         | 286TS | U30P2GS        | \$3,101 | DS-3AL          | 1.25 | 27.3              | 325            | 93.6           | 28.1           |       |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

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GENERAL PURPOSE  
UNIMOUNT™ AND  
STEEL EDGE™

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY™

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient – IE3



## APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

## FEATURES:

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes        |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------------|
| 1     | 900  | 208-230/460 | 182T  | U1E4D          | \$1,049 | DS-3AL          | 1.25 | 16.5              | 60             | 74.0           | 4.4-4.7/2.4    | 03,NNP,LA    |
| 1 1/2 | 1200 | 200         | 182T  | U32P3H         | \$751   | DS-3AL          | 1.25 | 16.5              | 60             | 87.5           | 5.4            |              |
|       | 1200 | 208-230/460 | 182T  | U32P3D         | \$751   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 4.8-4.7/2.3    |              |
|       | 1200 | 575         | 182T  | U32P3G         | \$751   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 1.8            |              |
|       | 900  | 208-230/460 | 184T  | U32E4D         | \$1,164 | DS-3AL          | 1.25 | 17.3              | 70             | 78.5           | 6.2-6.6/3.3    | NNP,LA       |
| 2     | 1200 | 200         | 184T  | U2P3H          | \$836   | DS-3AL          | 1.25 | 17.3              | 70             | 88.5           | 7.2            |              |
|       | 1200 | 208-230/460 | 184T  | U2P3D          | \$836   | DS-3AL          | 1.25 | 17.3              | 70             | 88.5           | 6.4-6.2/3.1    |              |
|       | 1200 | 575         | 184T  | U2P3G          | \$836   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 2.5            |              |
| 3     | 3600 | 200         | 182T  | U3P1H          | \$767   | DS-3AL          | 1.25 | 16.5              | 60             | 86.5           | 8.8            |              |
|       | 3600 | 208-230/460 | 182T  | U3P1D          | \$767   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 8.4-7.8/3.9    |              |
|       | 3600 | 575         | 182T  | U3P1G          | \$767   | DS-3AL          | 1.25 | 16.1              | 60             | 87.5           | 3.1            |              |
|       | 1800 | 200         | 182T  | U3P2H          | \$678   | DS-3AL          | 1.25 | 16.5              | 60             | 89.5           | 9              |              |
|       | 1800 | 208-230/460 | 182T  | U3P2D          | \$678   | DS-3AL          | 1.25 | 16.5              | 60             | 89.5           | 8.4-7.8/3.9    |              |
|       | 1800 | 575         | 182T  | U3P2G          | \$678   | DS-3AL          | 1.25 | 16.1              | 60             | 89.5           | 3.2            |              |
|       | 1200 | 200         | 213T  | U3P3H          | \$1,036 | DS-3AL          | 1.25 | 19.1              | 110            | 89.5           | 9.9            |              |
|       | 1200 | 208-230/460 | 213T  | U3P3D          | \$1,036 | DS-3AL          | 1.25 | 18.6              | 115            | 89.5           | 9.3-8.6/4.3    |              |
|       | 1200 | 575         | 213T  | U3P3G          | \$1,036 | DS-3AL          | 1.25 | 18.6              | 115            | 89.5           | 3.4            |              |
| 5     | 900  | 208-230/460 | 215T  | U3E4D          | \$1,606 | DS-3AL          | 1.25 | 20.1              | 125            | 84.0           | 11.7-11.1/5.5  | 03,NNP,LA    |
|       | 3600 | 200         | 184T  | U5P1H          | \$962   | DS-3AL          | 1.25 | 16.5              | 70             | 88.5           | 14             |              |
|       | 3600 | 208-230/460 | 184T  | U5P1D          | \$962   | DS-3AL          | 1.25 | 16.9              | 75             | 88.5           | 13.4-12.2/6.1  |              |
|       | 3600 | 575         | 184T  | U5P1G          | \$962   | DS-3AL          | 1.25 | 16.1              | 75             | 88.5           | 4.9            |              |
|       | 1800 | 200         | 184T  | U5P2H          | \$788   | DS-3AL          | 1.25 | 17.3              | 80             | 89.5           | 14.2           |              |
|       | 1800 | 208-230/460 | 184T  | U5P2D          | \$788   | DS-3AL          | 1.25 | 17.3              | 70             | 90.2           | 13.6-12.3/6.2  |              |
|       | 1800 | 575         | 184T  | U5P2G          | \$788   | DS-3AL          | 1.25 | 16.1              | 70             | 89.5           | 5.1            |              |
|       | 1200 | 200         | 215T  | U5P3H          | \$1,483 | DS-3AL          | 1.25 | 20.6              | 135            | 89.5           | 15.9           |              |
|       | 1200 | 208-230/460 | 215T  | U5P3D          | \$1,483 | DS-3AL          | 1.25 | 20.1              | 140            | 90.2           | 15-14/7        |              |
|       | 1200 | 575         | 215T  | U5P3G          | \$1,483 | DS-3AL          | 1.25 | 20.1              | 140            | 89.5           | 5.6            |              |
|       | 900  | 208-230/460 | 254T  | U5E4D          | \$2,299 | DS-3AL          | 1.25 | 23.9              | 192            | 85.5           | 16.4-15.4/7.7  | 02,03,NNP,LA |
| 7 1/2 | 3600 | 200         | 213T  | U7P1H          | \$1,192 | DS-3AL          | 1.25 | 19.1              | 105            | 90.2           | 20.6           |              |
|       | 3600 | 208-230/460 | 184T  | U7P1AF         | \$1,074 | DS-3AL          | 1.15 | 17.3              | 70             | 89.5           | 19.9-17.7/8.9  |              |
|       | 3600 | 208-230/460 | 213T  | U7P1D          | \$1,192 | DS-3AL          | 1.25 | 18.6              | 105            | 91.0           | 19.9-17.8/8.9  | 03           |
|       | 3600 | 575         | 213T  | U7P1G          | \$1,192 | DS-3AL          | 1.25 | 18.6              | 105            | 89.5           | 7.5            |              |
|       | 1800 | 200         | 213T  | U7P2H          | \$1,078 | DS-3AL          | 1.15 | 19.1              | 105            | 91.7           | 20.8           |              |
|       | 1800 | 208-230/460 | 213T  | U7P2D          | \$1,078 | DS-3AL          | 1.25 | 18.6              | 125            | 91.7           | 20-18.2/9.1    |              |
|       | 1800 | 575         | 213T  | U7P2G          | \$1,078 | DS-3AL          | 1.25 | 18.6              | 115            | 91.7           | 7.2            |              |
|       | 1200 | 200         | 254T  | U7P3H          | \$1,979 | DS-3AL          | 1.15 | 24.4              | 180            | 91.7           | 21.8           |              |
|       | 1200 | 208-230/460 | 254T  | U7P3D          | \$1,979 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 20.6-19/9.5    |              |
|       | 1200 | 575         | 254T  | U7P3G          | \$1,979 | DS-3AL          | 1.15 | 24.4              | 180            | 91.0           | 7.6            |              |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note LA Limited Availability

Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient – IE3



(continued)

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 10 | 3600 | 200         | 215T  | U10P1H         | \$1,397 | DS-3AL          | 1.25 | 21.6              | 125            | 90.2           | 27             |        |
|    | 3600 | 208-230/460 | 215T  | U10P1D         | \$1,397 | DS-3AL          | 1.25 | 20.1              | 130            | 91.0           | 26.4-23.5/11.8 |        |
|    | 3600 | 575         | 215T  | U10P1G         | \$1,397 | DS-3AL          | 1.25 | 20.1              | 130            | 91.7           | 9.4            |        |
|    | 1800 | 200         | 215T  | U10P2H         | \$1,302 | DS-3AL          | 1.25 | 20.6              | 133            | 91.7           | 27.5           |        |
|    | 1800 | 208-230/460 | 215T  | U10P2D         | \$1,302 | DS-3AL          | 1.25 | 20.1              | 133            | 91.7           | 26.5-23.9/12   |        |
|    | 1800 | 575         | 215T  | U10P2G         | \$1,302 | DS-3AL          | 1.25 | 20.1              | 140            | 91.7           | 9.6            |        |
|    | 1200 | 200         | 256T  | U10P3H         | \$2,390 | DS-3AL          | 1.25 | 26.1              | 230            | 91.7           | 28.2           |        |
|    | 1200 | 208-230/460 | 256T  | U10P3D         | \$2,390 | DS-3AL          | 1.25 | 26.1              | 230            | 91.7           | 27.1-24.6/12.3 |        |
|    | 1200 | 575         | 256T  | U10P3G         | \$2,390 | DS-3AL          | 1.25 | 26.1              | 230            | 91.7           | 9.8            |        |
| 15 | 3600 | 200         | 254T  | U15P1H         | \$1,999 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 40             | 02     |
|    | 3600 | 208-230/460 | 215T  | U15P1AF        | \$1,698 | DS-3AL          | 1.25 | 20.6              | 120            | 91.0           | 40-35/17.4     |        |
|    | 3600 | 208-230/460 | 254T  | U15P1D         | \$1,999 | DS-3AL          | 1.25 | 24.4              | 180            | 91.0           | 39-35/17.5     |        |
|    | 3600 | 575         | 254T  | U15P1G         | \$1,999 | DS-3AL          | 1.25 | 23.9              | 185            | 91.0           | 14.1           |        |
|    | 1800 | 200         | 254T  | U15P2H         | \$1,798 | DS-3AL          | 1.25 | 24.4              | 180            | 92.4           | 42             |        |
|    | 1800 | 208-230/460 | 254T  | U15P2D         | \$1,798 | DS-3AL          | 1.15 | 24.4              | 180            | 92.4           | 40-37/18.4     |        |
|    | 1800 | 575         | 254T  | U15P2G         | \$1,798 | DS-3AL          | 1.25 | 24.4              | 180            | 92.4           | 14.6           |        |
| 20 | 3600 | 200         | 256T  | U20P1H         | \$2,475 | DS-3AL          | 1.25 | 26.1              | 230            | 91.0           | 53             | 02     |
|    | 3600 | 208-230/460 | 256T  | U20P1D         | \$2,475 | DS-3AL          | 1.25 | 26.1              | 230            | 91.0           | 53-46/23.1     | 02, 03 |
|    | 3600 | 575         | 256T  | U20P1G         | \$2,475 | DS-3AL          | 1.25 | 26.1              | 230            | 91.0           | 18.5           | 02     |
|    | 1800 | 200         | 256T  | U20P2H         | \$2,216 | DS-3AL          | 1.25 | 25.6              | 250            | 93.0           | 54             |        |
|    | 1800 | 208-230/460 | 256T  | U20P2D         | \$2,216 | DS-3AL          | 1.25 | 26.1              | 230            | 93.0           | 53-47/23.5     |        |
|    | 1800 | 575         | 256T  | U20P2G         | \$2,216 | DS-3AL          | 1.25 | 26.1              | 250            | 93.0           | 19             |        |
| 25 | 3600 | 200         | 284T  | U25P1H         | \$3,036 | DS-3AL          | 1.25 | 28.7              | 250            | 91.7           | 65             |        |
|    | 3600 | 200         | 284TS | U25P1HS        | \$3,036 | DS-3AL          | 1.25 | 27.3              | 280            | 91.7           | 65             |        |
|    | 3600 | 208-230/460 | 284T  | U25P1D         | \$3,036 | DS-3AL          | 1.25 | 28.7              | 250            | 91.7           | 65-57/28.4     |        |
|    | 3600 | 208-230/460 | 284TS | U25P1DS        | \$3,036 | DS-3AL          | 1.25 | 27.3              | 250            | 91.7           | 65-57/28.4     |        |
|    | 3600 | 575         | 284T  | U25P1G         | \$3,036 | DS-3AL          | 1.25 | 28.7              | 250            | 91.7           | 22.7           |        |
|    | 3600 | 575         | 284TS | U25P1GS        | \$3,036 | DS-3AL          | 1.25 | 27.3              | 250            | 91.7           | 22.7           |        |
|    | 1800 | 200         | 284T  | U25P2H         | \$2,659 | DS-3AL          | 1.25 | 28.7              | 290            | 93.6           | 67             |        |
|    | 1800 | 200         | 284TS | U25P2HS        | \$2,659 | DS-3AL          | 1.25 | 27.3              | 290            | 93.6           | 67             |        |
|    | 1800 | 208-230/460 | 284T  | U25P2D         | \$2,659 | DS-3AL          | 1.25 | 28.3              | 280            | 93.6           | 65-59/29.3     | 03     |
|    | 1800 | 208-230/460 | 284TS | U25P2DS        | \$2,659 | DS-3AL          | 1.25 | 27.3              | 280            | 93.6           | 65-59/29.3     |        |
|    | 1800 | 575         | 284T  | U25P2G         | \$2,659 | DS-3AL          | 1.25 | 28.7              | 280            | 93.6           | 23.4           |        |
|    | 1800 | 575         | 284TS | U25P2GS        | \$2,659 | DS-3AL          | 1.25 | 27.3              | 290            | 93.6           | 23.4           |        |
| 30 | 1800 | 200         | 286T  | U30P2H         | \$3,101 | DS-3AL          | 1.25 | 28.3              | 325            | 93.6           | 81             |        |
|    | 1800 | 200         | 286TS | U30P2HS        | \$3,101 | DS-3AL          | 1.25 | 26.9              | 325            | 93.6           | 81             |        |
|    | 1800 | 208-230/460 | 286T  | U30P2D         | \$3,101 | DS-3AL          | 1.25 | 28.7              | 325            | 93.6           | 78-70/35       |        |
|    | 1800 | 208-230/460 | 286TS | U30P2DS        | \$3,101 | DS-3AL          | 1.25 | 27.3              | 325            | 93.6           | 78-70/35       |        |
|    | 1800 | 575         | 286T  | U30P2G         | \$3,101 | DS-3AL          | 1.25 | 28.7              | 325            | 93.6           | 28.1           |        |
|    | 1800 | 575         | 286TS | U30P2GS        | \$3,101 | DS-3AL          | 1.25 | 27.3              | 325            | 93.6           | 28.1           |        |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

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GENERAL PURPOSE UNIMOUNT® AND STEEL EDGE™  
 GENERAL PURPOSE C-FACE  
 GENERAL PURPOSE HOSTILE DUTY  
 GENERAL PURPOSE CORRO-DUTY  
 GENERAL PURPOSE 841 PLUS®  
 GENERAL PURPOSE OPEN DRIPPROOF  
 GENERAL PURPOSE HAZARDOUS LOCATION  
 GENERAL PURPOSE AUTOMOTIVE DUTY  
 COOLING TOWER DUTY  
 HAZARDOUS LOCATION  
 C-FACE MOTORS  
 VARIABLE SPEED MOTORS AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™

## APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

## FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark on Nameplate (140 Frame & Larger)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 1/4   | 1800 | 208-230/460 | 56    | T14S2A         | \$224 | DS-3RST         | 1.15 | 10.9              | 26             | 70.0           | 1.1-1.1/5      | 19,103   |
|       | 1200 | 208-230/460 | 56    | T14S3A         | \$294 | DS-3RST         | 1.15 | 11.9              | 32             | -              | 1.4-1.5/76     | 103      |
| 1/3   | 1800 | 208-230/460 | 56    | T13S2A         | \$255 | DS-3RST         | 1.15 | 11.4              | 26             | -              | 1.3-1.3/0.6    | 103      |
| 1/2   | 3600 | 208-230/460 | 48    | T12S1D4        | \$278 | DS-3RST         | 1.00 | 10.7              | 19             | -              | 1.8-1.8/0.90   | 103      |
|       | 3600 | 208-230/460 | 56    | T12S1A         | \$278 | DS-3RST         | 1.15 | 10.9              | 32             | -              | 2.0-2.0/1.0    | 103      |
|       | 1800 | 208-230/460 | 56    | T12S2A         | \$278 | DS-3RST         | 1.15 | 11.9              | 21             | -              | 1.8-1.8/0.9    | 103      |
|       | 1800 | 575         | 56    | T12S2G         | \$278 | DS-3RST         | 1.15 | 11.9              | 26             | -              | 0.80           | 103      |
|       | 1200 | 208-230/460 | 56    | T12S3A         | \$357 | DS-3RST         | 1.15 | 11.9              | 32             | -              | 2.2-2.3/1.1    | 103      |
|       | 1200 | 575         | 56    | T12S3G         | \$357 | DS-3RST         | 1.15 | 11.9              | 32             | -              | 0.85           | 103      |
| 3/4   | 3600 | 208-230/460 | 56    | T34S1A         | \$290 | DS-3RST         | 1.15 | 11.9              | 32             | -              | 2.5-2.5/1.2    | 103      |
|       | 1800 | 208-230/460 | 56    | T34S2A         | \$299 | DS-3RST         | 1.15 | 11.9              | 23             | -              | 3.0-3.0/1.5    | 103      |
|       | 1800 | 575         | 56    | T34S2G         | \$299 | DS-3RST         | 1.15 | 11.9              | 26             | -              | 1.1            | 37,103   |
|       | 1200 | 208-230/460 | 143T  | T34S3B14       | \$422 | DS-3RST         | 1.15 | 12.8              | 32             | 75.5           | 3.4-3.5/1.7    | 103      |
|       | 1200 | 208-230/460 | 56H   | T34S3AH        | \$422 | DS-3RST         | 1.15 | 12.9              | 32             | -              | 3.1-3.2/1.6    | 103      |
| 1     | 3600 | 208-230/460 | 56    | T1P1A          | \$327 | DS-3RST         | 1.25 | 11.9              | 32             | 77.0           | 3.4-3.2/1.6    |          |
|       | 1800 | 200         | 143T  | U1PID          | \$404 | DS-3RST         | 1.25 | 12.6              | 30             | 81.5           | 2.7/1.4        |          |
|       | 1800 | 200         | 143T  | U1P1G          | \$404 | DS-3RST         | 1.25 | 12.9              | 30             | 80.0           | 1.1            |          |
|       | 1800 | 200         | 143T  | U1P2H          | \$423 | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 3.4            |          |
|       | 1800 | 208-230/460 | 143T  | U1P2D          | \$423 | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 3.1-3/1.5      | 03       |
|       | 1800 | 208-230/460 | 143T  | T1P2AHZ        | \$423 | DS-3RST         | 1.25 | 12.8              | 36             | 85.5           | 3.2/1.5        |          |
|       | 1800 | 208-230/460 | 143T  | T1P2AH         | \$396 | DS-3RST         | 1.15 | 12.9              | 36             | 85.5           | 3.2/1.5        |          |
|       | 1800 | 575         | 143T  | U1P2G          | \$423 | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 1.1            |          |
|       | 1200 | 200         | 145T  | U1P3H          | \$575 | DS-3RST         | 1.25 | 12.8              | 35             | 82.5           | 4.1            |          |
|       | 1200 | 208-230/460 | 145T  | U1P3D          | \$575 | DS-3RST         | 1.25 | 12.8              | 35             | 82.5           | 3.6-3.5/1.8    | 03       |
|       | 1200 | 575         | 145T  | U1P3G          | \$575 | DS-3RST         | 1.25 | 12.8              | 35             | 82.5           | 1.4            |          |
| 1 1/2 | 3600 | 200         | 143T  | U32P1H         | \$488 | DS-3RST         | 1.25 | 12.8              | 30             | 84.0           | 4.4            |          |
|       | 3600 | 208-230/460 | 143T  | U32P1D         | \$488 | DS-3RST         | 1.25 | 12.8              | 30             | 84.0           | 4.2-3.9/1.9    | 03       |
|       | 3600 | 208-230/460 | 56H   | T32P1AH        | \$438 | DS-3RST         | 1.15 | 12.9              | 32             | 84.0           | 4.9-5.0/2.5    |          |
|       | 3600 | 575         | 143T  | U32P1G         | \$488 | DS-3RST         | 1.25 | 12.8              | 30             | 84.0           | 1.6            |          |
|       | 1800 | 200         | 145T  | U32P2H         | \$469 | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 4.7            |          |
|       | 1800 | 208-230/460 | 145T  | U32P2D         | \$469 | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 4.5-4.3/2.1    | 03       |
|       | 1800 | 208-230/460 | 145T  | T32P2AH        | \$421 | DS-3RST         | 1.15 | 12.9              | 38             | 36.5           | 4.5/2.2        |          |
|       | 1800 | 575         | 145T  | U32P2G         | \$469 | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 1.7            |          |
|       | 1200 | 208-230/460 | 182T  | S32P3A         | \$728 | DS-3RST         | 1.15 | 14.9              | 40             | 87.5           | 5.1-5.2/2.6    | 04,16,26 |
|       | 1200 | 575         | 182T  | S32P3G         | \$728 | DS-3RST         | 1.15 | 14.9              | 60             | 87.5           | 2              |          |
| 2     | 3600 | 200         | 145T  | U2P1H          | \$580 | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 5.6            |          |
|       | 3600 | 208-230/460 | 145T  | U2P1D          | \$580 | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 5.4-4.9/2.5    | 03       |
|       | 3600 | 575         | 145T  | U2P1G          | \$580 | DS-3RST         | 1.25 | 13.0              | 35             | 86.5           | 2              |          |
|       | 1800 | 200         | 145T  | U2P2H          | \$514 | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 6.2            |          |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power  
Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts  
Note 26 Does not include WORLD MOTOR® features

† All marks shown within this document are properties of their respective owners.





# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™

(continued)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 2     | 1800 | 208-230/460 | 145T  | U2P2D          | \$514   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 208-230/460 | 56H   | T2P2AH         | \$461   | DS-3RST         | 1.15 | 10.4              | 42             | 86.5           | 6.2-6.0/3.0    |          |
|       | 1800 | 208-230/460 | 56HZ  | T2P2AHZ        | \$514   | DS-3RST         | 1.25 | 14.3              | 42             | 86.5           | 6.2-6.0/3.0    |          |
|       | 1800 | 575         | 145T  | U2P2G          | \$514   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 2.3            |          |
|       | 1200 | 208-230/460 | 184T  | S2P3A          | \$811   | DS-3RST         | 1.15 | 14.9              | 74             | 88.5           | 6.4-6.2/3.1    | 04,16,26 |
|       | 1200 | 575         | 184T  | S2P3G          | \$811   | DS-3RST         | 1.15 | 15.9              | 60             | 88.5           | 2.4            |          |
| 3     | 3600 | 200         | 145T  | U3P1HF         | \$605   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 8.3            |          |
|       | 3600 | 208-230/460 | 145T  | U3P1DF         | \$605   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 8.1-7.2/3.6    | 03       |
|       | 3600 | 208-230/460 | 145T  | U3P1AHZ        | \$605   | DS-3RST         | 1.25 | 12.8              | 40             | 86.5           | 6.7-3.4        |          |
|       | 3600 | 208-230/460 | 182T  | S3P1A          | \$637   | DS-3RST         | 1.15 | 14.9              | 50             | 86.5           | 8.4-7.7/3.9    | 04,16,26 |
|       | 3600 | 575         | 145T  | U3P1GF         | \$605   | DS-3RST         | 1.25 | 12.8              | 35             | 86.5           | 2.9            |          |
|       | 3600 | 575         | 182T  | S3P1G          | \$637   | DS-3RST         | 1.15 | 14.9              | 60             | 86.5           | 3.1            |          |
|       | 1800 | 208-230/460 | 182T  | S3P2A          | \$637   | DS-3RST         | 1.15 | 14.9              | 85             | 89.5           | 8.4-7.8/3.9    | 04,16,26 |
|       | 1800 | 575         | 182T  | S3P2G          | \$637   | DS-3RST         | 1.15 | 14.9              | 60             | 89.5           | 3.2            |          |
|       | 1200 | 208-230/460 | 213T  | S3P3A          | \$1,018 | DS-3RST         | 1.15 | 18.9              | 130            | 89.5           | 9.2-8.6/4.3    | 04,16,26 |
|       | 1200 | 575         | 213T  | S3P3G          | \$1,018 | DS-3RST         | 1.15 | 18.9              | 105            | 89.5           | 3.4            | 04,16,26 |
| 5     | 3600 | 208-230/460 | 184T  | S5P1A          | \$733   | DS-3RST         | 1.15 | 15.9              | 65             | 88.5           | 13.6-12.1/6.1  | 04,16,26 |
|       | 3600 | 575         | 184T  | S5P1G          | \$733   | DS-3RST         | 1.15 | 15.9              | 70             | 88.5           | 4.9            |          |
|       | 1800 | 208-230/460 | 184T  | S5P2A          | \$733   | DS-3RST         | 1.15 | 15.9              | 72             | 89.5           | 13.5-12.5/6.2  | 04,16,26 |
|       | 1800 | 575         | 184T  | S5P2G          | \$733   | DS-3RST         | 1.15 | 15.9              | 70             | 89.5           | 4.9            |          |
|       | 1200 | 208-230/460 | 215T  | S5P3A          | \$1,410 | DS-3RST         | 1.15 | 18.9              | 135            | 89.5           | 15-14.1/7      | 04,16,26 |
|       | 1200 | 575         | 215T  | S5P3G          | \$1,410 | DS-3RST         | 1.15 | 18.9              | 120            | 89.5           | 5.6            | 04,16,26 |
| 7 1/2 | 3600 | 208-230/460 | 213T  | S7P1A          | \$1,074 | DS-3RST         | 1.15 | 18.9              | 114            | 89.5           | 19.9-17.9/9    | 04,16,26 |
|       | 3600 | 575         | 213T  | S7P1G          | \$1,074 | DS-3RST         | 1.15 | 18.9              | 105            | 89.5           | 7.2            | 04,16,26 |
|       | 1800 | 208-230/460 | 213T  | S7P2A          | \$1,023 | DS-3RST         | 1.15 | 18.9              | 90             | 91.7           | 20-18.1/9.1    | 04,16,26 |
|       | 1800 | 575         | 213T  | S7P2G          | \$1,023 | DS-3RST         | 1.15 | 18.9              | 105            | 91.7           | 7.2            | 04,16,26 |
| 10    | 3600 | 208-230/460 | 215T  | S10P1A         | \$1,272 | DS-3RST         | 1.15 | 18.9              | 128            | 90.2           | 26.5-23.5/11.7 | 04,16,26 |
|       | 3600 | 575         | 215T  | S10P1G         | \$1,272 | DS-3RST         | 1.15 | 18.9              | 120            | 90.2           | 9.4            | 04,16,26 |
|       | 1800 | 208-230/460 | 215T  | S10P2A         | \$1,211 | DS-3RST         | 1.15 | 18.9              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26 |
|       | 1800 | 575         | 215T  | S10P2G         | \$1,211 | DS-3RST         | 1.15 | 18.9              | 120            | 91.7           | 9.5            | 04,16,26 |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR® features

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# Definite Purpose Three Phase, UNIMOUNT® Totally Enclosed Fan Cooled (TEFC) Multi-Speed



## APPLICATIONS:

For applications requiring more than one standard speed.

## FEATURES:

- Class F Insulation
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings
- Removable Base 180 Frame & Up
- Lifting Provisions 180 Frame & Up
- Conversion Kits: C&D Flanges
- 1.0 Service Factor Or Higher

## Variable Torque, 1800/900 RPM, One Winding

| HP<br>(HP-Low) | RPM/RPM-Low<br>(# Wdgs) | Voltage | Frame | Catalog<br>Number | List    | Discount<br>Symbol | SF   | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-------------------------|---------|-------|-------------------|---------|--------------------|------|----------------------|-------------------|-------------------|-------------------|-------|
| 1 (1/4)        | 1800/900 (1)            | 460     | 143T  | U1L9C             | \$700   | DS-3MS             | 1.25 | 12.8                 | 34                | 78.5              | 1.6               |       |
| 1 1/2 (3/8)    | 1800/900 (1)            | 460     | 145T  | U32L9C            | \$770   | DS-3MS             | 1.25 | 12.8                 | 34                | 78.5              | 2.4               |       |
| 2 (1/2)        | 1800/900 (1)            | 460     | 145T  | U2L9C             | \$850   | DS-3MS             | 1.25 | 13.8                 | 42                | 81.5              | 3                 |       |
| 3 (3/4)        | 1800/900 (1)            | 460     | 182T  | U3L9C             | \$884   | DS-3MS             | 1.25 | 16.1                 | 52                | 80.0              | 4.4               |       |
| 5 (1-1/4)      | 1800/900 (1)            | 460     | 184T  | U5L9C             | \$1,234 | DS-3MS             | 1.15 | 16.9                 | 64                | 84.0              | 7                 |       |
| 7 1/2 (1-7/8)  | 1800/900 (1)            | 460     | 213T  | U7L9C             | \$1,532 | DS-3MS             | 1.25 | 18.6                 | 102               | 87.5              | 9.5               |       |
| 10 (2-1/2)     | 1800/900 (1)            | 460     | 215T  | U10L9C            | \$1,936 | DS-3MS             | 1.15 | 20.1                 | 130               | 84.0              | 13                |       |
| 15 (3-3/4)     | 1800/900 (1)            | 460     | 254T  | U15L9C            | \$2,544 | DS-3MS             | 1.25 | 23.9                 | 222               | 87.5              | 18.6              |       |
| 20 (5)         | 1800/900 (1)            | 460     | 256T  | U20L9C            | \$3,166 | DS-3MS             | 1.15 | 25.6                 | 242               | 87.5              | 24.4              |       |
| 25/ (6-1/4)    | 1800/900 (1)            | 460     | 286T  | U25L9C            | \$3,730 | DS-3MS             | 1.15 | 28.3                 | 262               | 87.5              | 30                |       |

## Constant Torque, 1800/900 RPM, One Winding

| HP<br>(HP-Low) | RPM/RPM-Low<br>(# Wdgs) | Voltage | Frame | Catalog<br>Number | List    | Discount<br>Symbol | SF   | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-------------------------|---------|-------|-------------------|---------|--------------------|------|----------------------|-------------------|-------------------|-------------------|-------|
| 1 (1/2)        | 1800/900 (1)            | 460     | 145T  | U1R9C             | \$846   | DS-3MS             | 1.25 | 13.8                 | 42                | 81.5              | 1.5               |       |
| 1 1/2 (3/4)    | 1800/900 (1)            | 460     | 182T  | U32R9C            | \$928   | DS-3MS             | 1.25 | 16.1                 | 58                | 80.0              | 2.2               |       |
| 2 (1)          | 1800/900 (1)            | 460     | 182T  | U2R9C             | \$1,026 | DS-3MS             | 1.25 | 16.1                 | 40                | 80.0              | 2.8               |       |
| 3 (1-1/2)      | 1800/900 (1)            | 460     | 184T  | U3R9C             | \$1,065 | DS-3MS             | 1.15 | 16.1                 | 67                | 78.5              | 4.1               |       |
| 5 (2-1/2)      | 1800/900 (1)            | 460     | 215T  | U5R9C             | \$1,490 | DS-3MS             | 1.25 | 20.1                 | 112               | 82.5              | 6.6               |       |
| 7 1/2 (3-3/4)  | 1800/900 (1)            | 460     | 254T  | U7R9C             | \$1,851 | DS-3MS             | 1.15 | 23.9                 | 190               | 84.0              | 9.6               |       |
| 10 (5)         | 1800/900 (1)            | 460     | 256T  | U10R9C            | \$2,338 | DS-3MS             | 1.00 | 25.6                 | 238               | 84.0              | 12.7              |       |
| 15 (7-1/2)     | 1800/900 (1)            | 460     | 284T  | U15R9C            | \$3,068 | DS-3MS             | 1.25 | 28.3                 | 262               | 85.5              | 18.6              |       |
| 20 (10)        | 1800/900 (1)            | 460     | 286T  | U20R9C            | \$3,820 | DS-3MS             | 1.15 | 28.3                 | 262               | 85.5              | 24.7              |       |

## Constant Torque, 1800/1200 RPM, Two Winding

| HP<br>(HP-Low) | RPM/RPM-Low<br>(# Wdgs) | Voltage | Frame | Catalog<br>Number | List    | Discount<br>Symbol | SF   | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-------------------------|---------|-------|-------------------|---------|--------------------|------|----------------------|-------------------|-------------------|-------------------|-------|
| 1 (2/3)        | 1800/1200 (2)           | 460     | 145T  | U1D10C            | \$1,161 | DS-3MS             | 1.15 | 13.8                 | 42                | 80.0              | 1.8               |       |
| 1 1/2 (1)      | 1800/1200 (2)           | 460     | 182T  | U32D10C           | \$1,273 | DS-3MS             | 1.25 | 16.1                 | 50                | 75.5              | 2.7               |       |
| 2 (1-1/3)      | 1800/1200 (2)           | 460     | 184T  | U2D10C            | \$1,403 | DS-3MS             | 1.25 | 16.9                 | 85                | 77.0              | 3.4               |       |
| 3 (2)          | 1800/1200 (2)           | 460     | 213T  | U3D10C            | \$1,460 | DS-3MS             | 1.00 | 18.6                 | 90                | 82.5              | 4.2               |       |
| 5 (3-1/3)      | 1800/1200 (2)           | 460     | 215T  | U5D10C            | \$2,044 | DS-3MS             | 1.25 | 20.1                 | 90                | 84.0              | 6.7               |       |
| 7 1/2 (5)      | 1800/1200 (2)           | 460     | 254T  | U7D10C            | \$2,537 | DS-3MS             | 1.25 | 23.9                 | 232               | 84.0              | 10.1              |       |
| 10 (6-2/3)     | 1800/1200 (2)           | 460     | 256T  | U10D10C           | \$3,207 | DS-3MS             | 1.25 | 25.6                 | 262               | 85.5              | 12.9              |       |
| 15 (10)        | 1800/1200 (2)           | 460     | 286T  | U15D10C           | \$4,210 | DS-3MS             | 1.25 | 28.3                 | 262               | 86.5              | 18.8              |       |

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient – IE3, C-Face Footed



**NEMA**  
Premium

UT, FUT  
UTE

## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- World Motor® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1 1/2 | 1200 | 208-230/460 | 182TC  | U32P3DC        | \$845   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    |       |
|       | 1200 | 575         | 182TC  | U32P3GC        | \$845   | DS-3AL          | 1.25 | 16.2              | 0              | 87.5           | 1.8            |       |
| 2     | 1200 | 208-230/460 | 184TC  | U2P3DC         | \$930   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    |       |
| 3     | 3600 | 208-230/460 | 182TC  | U3P1DC         | \$860   | DS-3AL          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9    |       |
|       | 3600 | 208-230/460 | 182TCH | U3P1DK         | \$860   | DS-3AL          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 208-230/460 | 182TC  | U3P2DC         | \$772   | DS-3AL          | 1.25 | 16.2              | 70             | 89.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 208-230/460 | 182TCH | U3P2DK         | \$772   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 575         | 182TC  | U3P2GC         | \$772   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |       |
|       | 1200 | 208-230/460 | 213TC  | U3P3DC         | \$1,150 | DS-3AL          | 1.25 | 18.8              | 110            | 89.5           | 9.3-8.6/4.3    |       |
| 5     | 3600 | 208-230/460 | 184TC  | U5P1DC         | \$1,056 | DS-3AL          | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |       |
|       | 3600 | 208-230/460 | 184TCH | U5P1DK         | \$1,056 | DS-3AL          | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |       |
|       | 1800 | 200         | 184TCH | U5P2HK         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 89.5           | 14.2           |       |
|       | 1800 | 208-230/460 | 184TC  | U5P2DC         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |       |
|       | 1800 | 208-230/460 | 184TCH | U5P2DK         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |       |
|       | 1800 | 575         | 184TC  | U5P2GC         | \$882   | DS-3AL          | 1.25 | 16.9              | 70             | 89.5           | 5              |       |
|       | 1200 | 208-230/460 | 215TC  | U5P3DC         | \$1,597 | DS-3AL          | 1.25 | 20.3              | 135            | 90.2           | 15-14/7        |       |
|       | 1200 | 575         | 215TC  | U5P3GC         | \$1,597 | DS-3AL          | 1.25 | 20.3              | 135            | 89.5           | 5.6            |       |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | U7P1DC         | \$1,306 | DS-3AL          | 1.25 | 18.8              | 105            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 3600 | 575         | 213TC  | U7P1GC         | \$1,306 | DS-3AL          | 1.25 | 18.8              | 105            | 89.5           | 7.5            |       |
|       | 1800 | 208-230/460 | 213TC  | U7P2DC         | \$1,192 | DS-3AL          | 1.25 | 18.8              | 105            | 91.7           | 20-18.2/9.1    |       |
|       | 1200 | 208-230/460 | 254TC  | U7P3DC         | \$2,147 | DS-3AL          | 1.25 | 24.0              | 180            | 91.0           | 20.6-19/9.5    |       |
| 10    | 3600 | 208-230/460 | 215TC  | U10P1DC        | \$1,511 | DS-3AL          | 1.25 | 20.3              | 125            | 91.7           | 26.4-23.5/11.8 |       |
|       | 3600 | 575         | 215TC  | U10P1GC        | \$1,511 | DS-3AL          | 1.25 | 20.1              | 125            | 91.7           | 9.4            |       |
|       | 1800 | 208-230/460 | 215TC  | U10P2DC        | \$1,416 | DS-3AL          | 1.25 | 20.3              | 133            | 91.7           | 26.5-23.9/12   |       |
|       | 1800 | 575         | 215TC  | U10P2GC        | \$1,416 | DS-3AL          | 1.25 | 20.3              | 133            | 91.7           | 9.6            |       |
|       | 1200 | 208-230/460 | 256TC  | U10P3DC        | \$2,558 | DS-3AL          | 1.25 | 25.8              | 230            | 91.7           | 27.1-24.6/12.3 |       |
| 15    | 3600 | 208-230/460 | 215TC  | U15P1DFC       | \$1,812 | DS-3AL          | 1.25 | 20.3              | 120            | 91.0           | 40-35/17.4     | 03    |
|       | 3600 | 208-230/460 | 254TC  | U15P1DC        | \$2,174 | DS-3AL          | 1.25 | 24.0              | 180            | 91.0           | 39-35/17.5     | 02,03 |
|       | 3600 | 575         | 254TC  | U15P1GC        | \$2,174 | DS-3AL          | 1.25 | 24.0              | 185            | 91.0           | 14.1           |       |
|       | 1800 | 208-230/460 | 254TC  | U15P2DC        | \$1,973 | DS-3AL          | 1.15 | 24.0              | 180            | 92.4           | 40-37/18.4     |       |
| 20    | 3600 | 208-230/460 | 256TC  | U20P1DC        | \$2,650 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 53-46/23.1     | 02,03 |
|       | 3600 | 575         | 256TC  | U20P1GC        | \$2,650 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 18.5           | 02    |
|       | 1800 | 208-230/460 | 256TC  | U20P2DC        | \$2,391 | DS-3AL          | 1.25 | 25.8              | 230            | 93.0           | 53-47/23.5     |       |
| 25    | 3600 | 208-230/460 | 284TC  | U25P1DC        | \$3,268 | DS-3AL          | 1.25 | 28.3              | 250            | 91.7           | 65-57/28.4     |       |
|       | 1800 | 208-230/460 | 284TC  | U25P2DC        | \$2,890 | DS-3AL          | 1.25 | 28.3              | 280            | 93.6           | 65-59/29.3     | 03    |
| 30    | 1800 | 208-230/460 | 286TC  | U30P2DC        | \$3,333 | DS-3AL          | 1.25 | 28.4              | 325            | 93.6           | 78-73/36       |       |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

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GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footed



## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2AC        | \$246 | DS-3RST         | 1.25 | 10.8              | 20             | 70.0           | 1.3-1.4/0.7    | 26     |
|       | 1800 | 575         | 56C   | U14S2GC        | \$246 | DS-3RST         | 1.25 | 10.8              | 22             | 75.5           | 0.4            | 26     |
|       | 1200 | 208-230/460 | 56C   | U14S3AC        | \$323 | DS-3RST         | 1.25 | 10.8              | 22             | 72.0           | 1.1-1.2/0.6    | 26     |
| 1/3   | 1800 | 208-230/460 | 56C   | U13S2AC        | \$281 | DS-3RST         | 1.25 | 10.8              | 20             | 72.0           | 1.4-1.5/0.7    | 26     |
|       | 1800 | 575         | 56C   | U13S2GC        | \$281 | DS-3RST         | 1.25 | 10.8              | 47             | 75.5           | 0.5            | 26     |
|       | 1200 | 208-230/460 | 56C   | U13S3AC        | \$361 | DS-3RST         | 1.25 | 10.8              | 23             | 75.5           | 1.3-1.3/0.6    | 26     |
| 1/2   | 3600 | 208-230/460 | 56C   | U12S1AC        | \$306 | DS-3RST         | 1.25 | 10.8              | 25             | 70.0           | 1.7-1.6/0.8    | 26     |
|       | 1800 | 208-230/460 | 56C   | U12S2AC        | \$306 | DS-3RST         | 1.25 | 10.8              | 26             | 74.0           | 1.8-1.8/0.9    | 26     |
|       | 1800 | 575         | 56C   | U12S2GC        | \$306 | DS-3RST         | 1.25 | 10.8              | 36             | 74.0           | 0.7            | 26     |
|       | 1200 | 208-230/460 | 56C   | U12S3AC        | \$393 | DS-3RST         | 1.25 | 11.5              | 26             | 72.0           | 2.2-2.2/1.1    |        |
| 3/4   | 3600 | 208-230/460 | 56C   | U34S1AC        | \$319 | DS-3RST         | 1.25 | 10.8              | 26             | 74.0           | 2.5-2.2/1.1    | 26     |
|       | 1800 | 208-230/460 | 56C   | U34S2AC        | \$329 | DS-3RST         | 1.25 | 10.8              | 32             | 77.0           | 2.7-2.7/1.4    | 26     |
|       | 1800 | 575         | 56C   | U34S2GC        | \$329 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 1.1            | 26     |
|       | 1200 | 208-230/460 | 143TC | U34S3DC        | \$464 | DS-3RST         | 1.25 | 12.1              | 30             | 72.0           | 3.1-3.1/1.6    | 26     |
|       | 1200 | 208-230/460 | 56C   | U34S3AC        | \$464 | DS-3RST         | 1.25 | 12.9              | 33             | -              | 3.1-3.2/1.6    |        |
| 1     | 3600 | 208-230/460 | 56C   | U1P1DC         | \$503 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03     |
|       | 3600 | 208-230/460 | 56C   | U1S1AC         | \$360 | DS-3RST         | 1.25 | 10.8              | 15             | 74.0           | 3.2-2.9/1.5    | 26,NNP |
|       | 1800 | 208-230/460 | 143TC | U1P2DC         | \$503 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03     |
|       | 1800 | 208-230/460 | 56C   | U1P2DFC        | \$440 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 3.1-3/1.5      | 03     |
|       | 1800 | 208-230/460 | 56C   | U1S2AFC        | \$347 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 3.4-3.4/1.7    | 26,NNP |
|       | 1800 | 575         | 143TC | U1P2GC         | \$503 | DS-3RST         | 1.25 | 12.1              | 50             | 85.5           | 1.1            |        |
|       | 1800 | 575         | 56C   | U1S2GFC        | \$347 | DS-3RST         | 1.25 | 10.8              | 40             | 81.5           | 1.4            | 26,NNP |
|       | 1800 | 575         | 56C   | U1P2GFC        | \$440 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            | 03     |
|       | 1200 | 208-230/460 | 145TC | U1P3DC         | \$655 | DS-3RST         | 1.25 | 13.1              | 40             | 82.5           | 3.6-3.5/1.8    | 03     |
|       | 1200 | 208-230/460 | 56C   | U1S3DFC        | \$471 | DS-3RST         | 1.25 | 10.8              | 36             | 78.5           | 3.8-3.9/2      | 26,NNP |
|       | 1200 | 208-230/460 | 56C   | U1P3DFC        | \$655 | DS-3RST         | 1.25 | 13.1              | 30             | 82.5           | 3.6-3.5/1.8    | 03     |
|       | 1200 | 575         | 145TC | U1P3GC         | \$655 | DS-3RST         | 1.25 | 13.1              | 40             | 82.5           | 1.4            |        |
| 1 1/2 | 3600 | 200         | 143TC | U32P1HC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 4.4            |        |
|       | 3600 | 208-230/460 | 143TC | U32P1DC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 4.2-3.9/1.9    | 03     |
|       | 3600 | 208-230/460 | 56C   | U32S1AFC       | \$400 | DS-3RST         | 1.25 | 10.8              | 32             | 78.5           | 4.6-4/2        | 26,NNP |
|       | 3600 | 208-230/460 | 56C   | U32P1DFC       | \$500 | DS-3RST         | 1.25 | 13.1              | 30             | 84.0           | 4.2-3.9/1.9    | 03     |
|       | 3600 | 575         | 143TC | U32P1GC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 1.6            |        |
|       | 1800 | 200         | 145TC | U32P2HC        | \$549 | DS-3RST         | 1.25 | 13.1              | 60             | 86.5           | 4.7            |        |
|       | 1800 | 208-230/460 | 145TC | U32P2DC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 4.5-4.3/2.1    | 03     |
|       | 1800 | 208-230/460 | 56C   | U32S2AFC       | \$384 | DS-3RST         | 1.25 | 10.8              | 32             | 81.5           | 4.7-4.7/2.3    | 26,NNP |
|       | 1800 | 208-230/460 | 145TC | U32P2DC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 4.5-4.3/2.1    | 03     |
|       | 1800 | 208-230/460 | 56C   | U32P2DFC       | \$442 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03     |
|       | 1800 | 575         | 145TC | U32P2GC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 1.7            |        |
|       | 1800 | 575         | 56C   | U32S2GFC       | \$384 | DS-3RST         | 1.25 | 12.1              | 32             | 80.0           | 1.9            | 26,NNP |
|       | 1800 | 575         | 56C   | U32P2GFC       | \$442 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            | 03     |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 26 Does not include WORLDMOTOR® features

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footed

(continued)



| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 2     | 3600 | 208-230/460 | 145TC | U2P1DC         | \$659   | DS-3RST         | 1.25 | 13.1              | 40             | 85.5           | 5.4-4.9/2.5    | 03       |
|       | 3600 | 208-230/460 | 56C   | U2S1AFC        | \$475   | DS-3RST         | 1.25 | 12.1              | 30             | 80.0           | 5.9-5.3/2.6    | 26,NNP   |
|       | 3600 | 208-230/460 | 56C   | U2P1DFC        | \$546   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.4-4.9/2.5    | 03       |
|       | 3600 | 575         | 145TC | U2P1GC         | \$659   | DS-3RST         | 1.25 | 13.1              | 40             | 85.5           | 2              |          |
|       | 1800 | 208-230/460 | 145TC | U2P2DC         | \$593   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 208-230/460 | 56C   | U2S2AFC        | \$421   | DS-3RST         | 1.25 | 10.8              | 42             | 82.5           | 6.3-6.3/3.2    | 26,NNP   |
|       | 1800 | 208-230/460 | 56C   | U2P2DFC        | \$484   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 575         | 145TC | U2P2GC         | \$593   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 2.3            |          |
|       | 1800 | 575         | 56C   | U2S2GFC        | \$421   | DS-3RST         | 1.25 | 12.5              | 39             | -              | 2.5            | NNP      |
|       | 1800 | 575         | 56C   | U2P2GFC        | \$484   | DS-3RST         | 1.25 | 13.9              | 50             | 85.5           | 2.5            |          |
| 3     | 3600 | 208-230/460 | 145TC | U3P1A14C       | \$772   | DS-3RST         | 1.25 | 13.1              | 53             | 86.5           | 8.1-7.2/3.6    | 03,14    |
|       | 3600 | 208-230/460 | 56C   | U3S1AFC        | \$522   | DS-3RST         | 1.25 | 10.8              | 32             | 82.5           | 8.5-7.5/3.8    | 26,NNP   |
|       | 3600 | 208-230/460 | 56C   | U3P1DFC        | \$600   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 8.1-7.2/3.6    | 03       |
|       | 1800 | 208-230/460 | 182TC | S3P2AC         | \$669   | DS-3RST         | 1.15 | 15.9              | 85             | 89.5           | 8.4-7.8/3.9    | 04,16,26 |
| 5     | 3600 | 208-230/460 | 184TC | S5P1AC         | \$770   | DS-3RST         | 1.15 | 15.9              | 65             | 88.5           | 13.6-12.1/6.1  | 04,16,26 |
|       | 1800 | 208-230/460 | 184TC | S5P2AC         | \$770   | DS-3RST         | 1.15 | 15.9              | 110            | 89.5           | 13.5-12.5/6.2  | 04,16,26 |
| 7 1/2 | 3600 | 208-230/460 | 213TC | S7P1AC         | \$1,128 | DS-3RST         | 1.15 | 19.4              | 116            | 90.2           | 19.9-17.9/9    | 04,16,26 |
|       | 1800 | 208-230/460 | 213TC | S7P2AC         | \$1,074 | DS-3RST         | 1.15 | 19.4              | 90             | 91.7           | 20-18.1/9.1    | 04,16,26 |
| 10    | 3600 | 208-230/460 | 215TC | S10P1AC        | \$1,336 | DS-3RST         | 1.15 | 19.4              | 131            | 90.2           | 26.5-23.5/11.7 | 04,16,26 |
|       | 1800 | 208-230/460 | 215TC | S10P2AC        | \$1,272 | DS-3RST         | 1.15 | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26 |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA<sup>®</sup> Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR<sup>®</sup> features

Note NNP Non-NEMA<sup>®</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face Footless

## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

### UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

### STEEL EDGE™ (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame and Up)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes   |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|---------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | 1.25 | 10.8              | 23             | 70.0           | 1-1/0.5        | 16      |
|       | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | 1.25 | 10.8              | 23             | 70.0           | 1-1/0.5        | 16      |
|       | 1200 | 208-230/460 | 56C   | T14S3DCR       | \$308 | DS-3RST         | 1.15 | 11.3              | 27             | 75.5           | 1.4-1.4/0.7    | 26,103  |
| 1/3   | 3600 | 208-230/460 | 56C   | T13S1ACR       | \$279 | DS-3RST         | 1.15 | 10.9              | 32             | -              | 1.7-1.8/0.9    | 103     |
|       | 1800 | 208-230/460 | 42CZ  | T13S2D4ZCR     | \$266 | DS-3RST         | 1.00 | 11.6              | 9              | -              | 1.5-1.5/0.75   | 26      |
|       | 1800 | 208-230/460 | 56C   | U13S2ACR       | \$266 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.2-1.2/0.6    | 16      |
|       | 1800 | 575         | 56C   | T13S2GCR       | \$266 | DS-3RST         | 1.15 | 11.4              | 26             | -              | 0.59           | 103     |
|       | 1200 | 208-230/460 | 56C   | T13S3DCR       | \$346 | DS-3RST         | 1.15 | 11.3              | 32             | 77.0           | 1.6-1.6/0.80   | 26,103  |
| 1/2   | 3600 | 208-230/460 | 56C   | T12S1ACR       | \$291 | DS-3RST         | 1.15 | 10.9              | 32             | 64.0           | 2.18-2.18/1.09 | 103     |
|       | 3600 | 208-230/460 | 56C   | U1P1DCR        | \$488 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03      |
|       | 1800 | 208-230/460 | 56C   | U12P2DCR       | \$378 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 1.8/1.8/0.9    | 03      |
|       | 1800 | 208-230/460 | 56C   | U12S2ACR       | \$291 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.8-1.7/0.9    | 16      |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|       | 1800 | 575         | 56C   | U12S2GCR       | \$291 | DS-3RST         | 1.25 | 10.8              | 27             | 74.0           | 0.7            |         |
|       | 1800 | 575         | 56C   | U1P2GFCR       | \$425 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            |         |
|       | 1200 | 208-230/460 | 56C   | U12S3ACR       | \$378 | DS-3RST         | 1.25 | 10.8              | 25             | 72.0           | 2.1-2.1/1      | 16      |
|       | 1200 | 208-230/460 | 56C   | U12S3ACR       | \$378 | DS-3RST         | 1.25 | 10.8              | 25             | 72.0           | 2.1-2.1/1      | 16      |
| 3/4   | 3600 | 208-230/460 | 56C   | U34S1ACR       | \$304 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 2.4-2.2/1.1    | 16      |
|       | 1800 | 208-230/460 | 56C   | U34S2ACR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 78.5           | 2.6-2.7/1.3    | 16      |
|       | 1800 | 575         | 56C   | U34S2GCR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 0.9            |         |
|       | 1200 | 208-230/460 | 56C   | U34S3ACR       | \$449 | DS-3RST         | 1.15 | 12.9              | 32             | -              | 3.1-3.2/1.6    | 103     |
| 1     | 3600 | 208-230/460 | 56C   | U1S1ACR        | \$345 | DS-3RST         | 1.25 | 10.8              | 38             | 75.5           | 3.2-2.9/1.4    | 16,NNP  |
|       | 1800 | 208-230/460 | 143TC | U1E2DCR        | \$403 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 3.1-3/1.5      | NNP     |
|       | 1800 | 208-230/460 | 143TC | U1P2DCR        | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$425 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|       | 1800 | 208-230/460 | 56C   | U1S2AFCR       | \$332 | DS-3RST         | 1.25 | 10.8              | 31             | 80.0           | 3.3-3.4/1.7    | 16,NNP  |
|       | 1800 | 575         | 143TC | U1E2GCR        | \$403 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 1.2            | NNP     |
|       | 1800 | 575         | 56C   | U1S2GFCR       | \$332 | DS-3RST         | 1.25 | 12.1              | 31             | 80.0           | 1.4            | NNP     |
|       | 1200 | 208-230/460 | 56C   | T1S3ACR        | \$456 | DS-3RST         | 1.15 | 13.4              | 32             | 83.0           | 3.7-3.8/1.9    | 103,NNP |
|       | 1200 | 208-230/460 | 56C   | T1S3ACR        | \$456 | DS-3RST         | 1.15 | 13.4              | 32             | 83.0           | 3.7-3.8/1.9    | 103,NNP |
| 1 1/2 | 3600 | 208-230/460 | 143TC | U32E1A14CR     | \$552 | DS-3RST         | 1.15 | 11.9              | 32             | 82.5           | 4.9-5.0/2.5    | 103,NNP |
|       | 3600 | 208-230/460 | 56C   | T32P1ACR       | \$485 | DS-3RST         | 1.15 | 12.3              | 32             | 84.0           | 4.9-5.0/2.5    |         |
|       | 3600 | 208-230/460 | 56C   | T32S1ACR       | \$385 | DS-3RST         | 1.15 | 11.9              | 27             | 80.0           | 4.7-4.5/2.2    | 103,NNP |
|       | 1800 | 208-230/460 | 145TC | U32E2DCR       | \$439 | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 4.6-4.3/2.2    | NNP     |
|       | 1800 | 208-230/460 | 145TC | U32P2DCR       | \$534 | DS-3RST         | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1    | 03      |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR® features

Note 103 Does not accept brake kit

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 1 1/2 | 1800 | 208-230/460 | 56C    | T32E2ACR       | \$439   | DS-3RST         | 1.25 | 12.9              | 32             | 84.0           | 4.5-4.5/2.2    | 103,NNP  |
|       | 1800 | 208-230/460 | 56C    | U32P2DFCR      | \$426   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03       |
|       | 1800 | 208-230/460 | 56C    | U32S2AFCR      | \$369   | DS-3RST         | 1.25 | 10.8              | 33             | 81.5           | 4.7-4.7/2.3    | 16,NNP   |
|       | 1800 | 575         | 145TC  | U32E2GCR       | \$439   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 1.8            | NNP      |
|       | 1800 | 575         | 56C    | U32S2GFCR      | \$369   | DS-3RST         | 1.25 | 12.1              | 33             | 80.0           | 1.9            | NNP      |
|       | 1800 | 575         | 56C    | U32P2GFCR      | \$426   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            |          |
|       | 1200 | 208-230/460 | 182TC  | U32E3DCR       | \$611   | DS-3AL          | 1.25 | 16.1              | 55             | 85.5           | 5.5-5.4/2.7    | 03,NNP   |
|       | 1200 | 208-230/460 | 182TC  | U32P3DCR       | \$815   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    | 03       |
|       | 1200 | 208-230/460 | 56C    | T32S3ACR       | \$564   | DS-3RST         | 1.15 | 14.4              | 32             | -              | 5.4-5.3/2.6    | 103,NNP  |
| 2     | 3600 | 208-230/460 | 56C    | T2P1ACR        | \$529   | DS-3RST         | 1.15 | 13.6              | 35             | 85.5           | 6.0-5.6/2.8    | 04,16,26 |
|       | 3600 | 208-230/460 | 56C    | T2S1ACR        | \$460   | DS-3RST         | 1.15 | 11.9              | 32             | 80.0           | 6.0-5.4/2.7    | 103,NNP  |
|       | 1800 | 208-230/460 | 145TC  | U2E2DCR        | \$475   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 6.1-5.9/2.9    | NNP      |
|       | 1800 | 208-230/460 | 145TC  | U2P2DCR        | \$578   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 208-230/460 | 56C    | U2P2DFCR       | \$467   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 208-230/460 | 56C    | U2S2AFCR       | \$406   | DS-3RST         | 1.25 | 12.1              | 43             | 82.5           | 6.1-5.9/3      | 16,NNP   |
|       | 1800 | 575         | 145TC  | U2E2GCR        | \$475   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 2.4            | NNP      |
|       | 1800 | 575         | 56C    | T2S2GCR        | \$406   | DS-3RST         | 1.15 | 13.4              | 26             | 82.5           | 2.4            | 103,NNP  |
|       | 1200 | 208-230/460 | 184TC  | U2E3DCR        | \$682   | DS-3AL          | 1.25 | 16.9              | 70             | 86.5           | 7-6.8/3.4      | 03,NNP   |
| 3     | 1200 | 208-230/460 | 184TC  | U2P3DCR        | \$900   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    | 03       |
|       | 3600 | 208-230/460 | 145TC  | U3E1A14CR      | \$528   | DS-3RST         | 1.25 | 13.4              | 32             | 85.5           | 8.5-7.3/3.6    | 103,NNP  |
|       | 3600 | 208-230/460 | 145TC  | U3P1A14CR      | \$607   | DS-3RST         | 1.25 | 13.9              | 34             | 86.5           | 7.4-7.5/3.7    | 04,16,26 |
|       | 3600 | 208-230/460 | 182TC  | U3E1DCR        | \$688   | DS-3AL          | 1.25 | 16.1              | 58             | 85.5           | 8.7-8/4        | 03,NNP   |
|       | 3600 | 208-230/460 | 182TC  | U3P1DCR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03       |
|       | 3600 | 208-230/460 | 182TCH | U3E1DKR        | \$688   | DS-3AL          | 1.25 | 16.1              | 53             | 85.5           | 8.7-8/4        | 03,NNP   |
|       | 3600 | 208-230/460 | 182TCH | U3P1DKR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03       |
|       | 3600 | 208-230/460 | 56C    | T3P1ACR        | \$583   | DS-3RST         | 1.15 | 14.1              | 40             | 86.5           | 7.9-6.7/3.4    |          |
|       | 3600 | 208-230/460 | 56C    | T3S1ACR        | \$507   | DS-3RST         | 1.15 | 13.4              | 32             | 86.0           | 8.5-7.3/3.6    | 103,NNP  |
|       | 1800 | 208-230/460 | 182TC  | S3E2ACR        | \$569   | DS-3RST         | 1.15 | 15.9              | 85             | 87.5           | 8.5-7.9/3.9    | 26,NNP   |
|       | 1800 | 208-230/460 | 182TC  | S3P2ACR        | \$639   | DS-3RST         | 1.15 | 15.9              | 60             | 89.5           | 8.4-7.8/3.9    | 04,16,26 |
|       | 1800 | 208-230/460 | 182TC  | U3E2DCR        | \$618   | DS-3AL          | 1.25 | 16.1              | 67             | 87.5           | 8.5-7.9/3.9    | 03,NNP   |
|       | 1800 | 208-230/460 | 182TC  | U3P2DCR        | \$742   | DS-3AL          | 1.25 | 16.1              | 60             | 89.5           | 8.4-7.8/3.9    | 03       |
|       | 1800 | 208-230/460 | 182TCH | U3P2DKR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    | 03       |
|       | 1800 | 208-230/460 | 56C    | T3S2ACR        | \$517   | DS-3RST         | 1.00 | 14.9              | 50             | 87.5           | 9.5-9.2/4.6    | 103,NNP  |
|       | 1800 | 575         | 182TC  | U3E2GCR        | \$618   | DS-3AL          | 1.25 | 16.1              | 65             | 87.5           | 3.2            | NNP      |
|       | 1800 | 575         | 182TC  | U3P2GCR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |          |
|       | 1200 | 208-230/460 | 213TC  | U3E3DCR        | \$920   | DS-3AL          | 1.25 | 18.6              | 110            | 87.5           | 9.7-9.1/4.5    | 03,NNP   |
|       | 1200 | 208-230/460 | 213TC  | U3P3DCR        | \$1,105 | DS-3AL          | 1.25 | 18.6              | 105            | 89.5           | 9.3-8.6/4.3    | 03       |
| 5     | 3600 | 208-230/460 | 184TC  | S5E1ACR        | \$655   | DS-3RST         | 1.15 | 15.9              | 65             | 87.5           | 13.7-12.3/6.1  | 26,NNP   |
|       | 3600 | 208-230/460 | 184TC  | S5P1ACR        | \$740   | DS-3RST         | 1.15 | 15.9              | 70             | 88.5           | 13.6-12.1/6.1  | 04,16,26 |
|       | 3600 | 208-230/460 | 184TC  | U5E1DCR        | \$845   | DS-3AL          | 1.25 | 16.9              | 120            | 87.5           | 13.8-12.3/6.1  | 03,NNP   |
|       | 3600 | 208-230/460 | 184TC  | U5P1DCR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03       |
|       | 3600 | 208-230/460 | 184TCH | U5P1DKR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03       |
|       | 1800 | 208-230/460 | 184TC  | S5E2ACR        | \$655   | DS-3RST         | 1.15 | 15.9              | 110            | 87.5           | 14.2-12.8/6.4  | 26,NNP   |
|       | 1800 | 208-230/460 | 184TC  | S5P2ACR        | \$740   | DS-3RST         | 1.15 | 15.9              | 70             | 88.5           | 13.5-12.5/6.2  | 04,16,26 |
|       | 1800 | 208-230/460 | 184TC  | U5E2DCR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | NNP      |
|       | 1800 | 208-230/460 | 184TC  | U5P2DCR        | \$852   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  | 03       |
|       | 1800 | 208-230/460 | 184TCH | U5E2DKR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | 03,NNP   |
|       | 1800 | 208-230/460 | 184TCH | U5P2DKR        | \$852   | DS-3AL          | 1.25 | 16.9              | 70             | 90.2           | 13.6-12.3/6.2  | 03       |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog  
 Note 04 On 60 Hertz Sine Wave Power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts  
 Note 26 Does not include WORLDMOTOR® features  
 Note 103 Does not accept brake kit  
 Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

| HP    | RPM  | Voltage     | Frame       | Catalog Number | List      | Discount Symbol | SF      | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes          |
|-------|------|-------------|-------------|----------------|-----------|-----------------|---------|-------------------|----------------|----------------|----------------|----------------|
| 5     | 1800 | 575         | 184TC       | U5E2GCR        | \$780     | DS-3AL          | 1.25    | 16.9              | 70             | 87.5           | 5.2            | NNP            |
|       | 1200 | 208-230/460 | 215TC       | U5E3DCR        | \$1,278   | DS-3AL          | 1.25    | 20.1              | 140            | 87.5           | 15.6-14.5/7.3  | 03,NNP         |
|       | 1200 | 208-230/460 | 215TC       | U5P3DCR        | \$1,552   | DS-3AL          | 1.25    | 20.1              | 120            | 90.2           | 15-14/7        | 03             |
|       | 1200 | 575         | 215TC       | U5E3GCR        | \$1,278   | DS-3AL          | 1.25    | 20.1              | 140            | 87.5           | 5.8            | NNP            |
| 7 1/2 | 3600 | 208-230/460 | 213TC       | S7E1ACR        | \$959     | DS-3RST         | 1.15    | 19.4              | 55             | 88.5           | 20.6-18.4/9.2  | 26,NNP         |
|       | 3600 | 208-230/460 | 213TC       | S7P1ACR        | \$1,083   | DS-3RST         | 1.15    | 19.4              | 105            | 89.5           | 19.9-17.9/9    | 04,16,26       |
|       | 3600 | 208-230/460 | 213TC       | U7E1DCR        | \$1,045   | DS-3AL          | 1.25    | 18.6              | 100            | 88.5           | 20.4-18.4/9.2  | 03,NNP         |
|       | 3600 | 208-230/460 | 213TC       | U7P1DCR        | \$1,261   | DS-3AL          | 1.25    | 18.6              | 105            | 91.0           | 19.9-17.8/8.9  | 03             |
|       | 1800 | 208-230/460 | 213TC       | S7E2ACR        | \$913     | DS-3RST         | 1.15    | 19.4              | 90             | 89.5           | 20.1-18.3/9.1  | 26,NNP         |
|       | 1800 | 208-230/460 | 213TC       | S7P2ACR        | \$1,029   | DS-3RST         | 1.15    | 19.4              | 105            | 91.7           | 20-18.1/9.1    | 04,16,26       |
|       | 1800 | 208-230/460 | 213TC       | U7E2DCR        | \$954     | DS-3AL          | 1.15    | 18.6              | 110            | 89.5           | 20.6-18.8/9.4  | 03,NNP         |
|       | 1800 | 208-230/460 | 213TC       | U7P2DCR        | \$1,147   | DS-3AL          | 1.25    | 18.6              | 110            | 91.7           | 20-18.2/9.1    | 03             |
|       | 1800 | 575         | 213TC       | U7E2GCR        | \$954     | DS-3AL          | 1.25    | 18.6              | 110            | 89.5           | 7.5            | NNP            |
|       | 1200 | 208-230/460 | 254TC       | U7E3DCR        | \$1,718   | DS-3AL          | 1.25    | 23.9              | 200            | 89.5           | 20.8-18.8/9.4  | 02,03,NNP      |
|       | 1200 | 208-230/460 | 254TC       | U7P3DCR        | \$2,087   | DS-3AL          | 1.25    | 23.9              | 180            | 91.0           | 20.6-19/9.5    | 03             |
|       | 10   | 3600        | 208-230/460 | 215TC          | S10E1ACR  | \$1,136         | DS-3RST | 1.15              | 19.4           | 65             | 89.5           | 26.5-23.5/11.7 |
| 3600  |      | 208-230/460 | 215TC       | S10P1ACR       | \$1,291   | DS-3RST         | 1.15    | 19.4              | 120            | 90.2           | 26.5-23.5/11.7 | 04,16,26       |
| 3600  |      | 208-230/460 | 215TC       | U10E1DCR       | \$1,209   | DS-3AL          | 1.25    | 20.1              | 110            | 89.5           | 26.7-23.8/11.9 | 03,NNP         |
| 3600  |      | 208-230/460 | 215TC       | U10P1DCR       | \$1,466   | DS-3AL          | 1.25    | 20.1              | 120            | 91.0           | 26.4-23.5/11.8 | 03             |
| 1800  |      | 208-230/460 | 215TC       | S10E2ACR       | \$1,081   | DS-3RST         | 1.15    | 19.4              | 120            | 89.5           | 26.6-23.8/11.9 | 26,NNP         |
| 1800  |      | 208-230/460 | 215TC       | S10P2ACR       | \$1,227   | DS-3RST         | 1.15    | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26       |
| 1800  |      | 208-230/460 | 215TC       | U10E2DCR       | \$1,133   | DS-3AL          | 1.25    | 20.1              | 120            | 89.5           | 27.2-24.6/12.3 | 03,NNP         |
| 1800  |      | 208-230/460 | 215TC       | U10P2DCR       | \$1,371   | DS-3AL          | 1.25    | 20.1              | 133            | 91.7           | 26.5-23.9/12   | 03             |
| 1800  |      | 575         | 215TC       | U10E2GCR       | \$1,133   | DS-3AL          | 1.25    | 20.1              | 120            | 89.5           | 9.9            | NNP            |
| 1200  |      | 208-230/460 | 256TC       | U10E3DCR       | \$2,046   | DS-3AL          | 1.25    | 25.7              | 230            | 89.5           | 27.5-25/12.5   | 02,03,NNP      |
| 1200  |      | 208-230/460 | 256TC       | U10P3DCR       | \$2,498   | DS-3AL          | 1.25    | 25.7              | 230            | 91.7           | 27.1-24.6/12.3 | 03             |
| 15    |      | 3600        | 208-230/460 | 215TC          | U15E1DFCR | \$1,450         | DS-3AL  | 1.25              | 20.1           | 120            | 90.2           | 40-35/17.7     |
|       | 3600 | 208-230/460 | 215TC       | U15P1DFCR      | \$1,767   | DS-3AL          | 1.25    | 20.1              | 120            | 91.0           | 40-35/17.4     | 03             |
|       | 3600 | 208-230/460 | 254TC       | U15E1DCR       | \$1,739   | DS-3AL          | 1.15    | 23.9              | 210            | 90.2           | 40-35/17.6     | 02,03,NNP      |
|       | 3600 | 208-230/460 | 254TC       | U15P1DCR       | \$2,114   | DS-3AL          | 1.25    | 23.9              | 180            | 91.0           | 39-35/17.5     | 03             |
|       | 1800 | 208-230/460 | 254TC       | U15E2DCR       | \$1,578   | DS-3AL          | 1.25    | 23.9              | 220            | 91.0           | 41-37/18.5     | 02,03,NNP      |
|       | 1800 | 208-230/460 | 254TC       | U15P2DCR       | \$1,913   | DS-3AL          | 1.25    | 23.9              | 180            | 92.4           | 40-37/18.4     | 03             |
|       | 1800 | 575         | 254TC       | U15E2GCR       | \$1,578   | DS-3AL          | 1.25    | 23.9              | 220            | 91.0           | 14.7           | 02,NNP         |
|       | 20   | 3600        | 208-230/460 | 256TC          | U20E1DCR  | \$2,120         | DS-3AL  | 1.25              | 25.7           | 230            | 90.2           | 53-47/23.4     |
| 3600  |      | 208-230/460 | 256TC       | U20P1DCR       | \$2,590   | DS-3AL          | 1.25    | 25.8              | 230            | 91.0           | 53-46/23.1     | 03             |
| 1800  |      | 208-230/460 | 256TC       | U20E2DCR       | \$1,913   | DS-3AL          | 1.25    | 25.7              | 250            | 91.0           | 54-49/24.3     | 02,03,NNP      |
| 1800  |      | 208-230/460 | 256TC       | U20P2DCR       | \$2,331   | DS-3AL          | 1.25    | 25.8              | 230            | 93.0           | 53-47/23.5     | 03             |
| 25    | 3600 | 208-230/460 | 284TC       | U25P1DCR       | \$3,208   | DS-3AL          | 1.25    | 28.3              | 280            | 91.7           | 65-57/28.4     | 03             |
|       | 1800 | 208-230/460 | 284TC       | U25E2DCR       | \$2,312   | DS-3AL          | 1.25    | 28.3              | 290            | 92.4           | 67-59/29.6     | 02,03,NNP      |
|       | 1800 | 208-230/460 | 284TC       | U25P2DCR       | \$2,830   | DS-3AL          | 1.25    | 28.3              | 280            | 93.6           | 65-59/29.3     | 03             |
| 30    | 1800 | 208-230/460 | 286TC       | U30E2DCR       | \$2,666   | DS-3AL          | 1.25    | 28.3              | 320            | 92.4           | 80-72/36       | 02,03,NNP      |
|       | 1800 | 208-230/460 | 286TC       | U30P2DCR       | \$3,273   | DS-3AL          | 1.25    | 28.3              | 300            | 93.6           | 78-70/35       | 03             |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog  
 Note 04 On 60 Hertz Sine Wave Power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts  
 Note 26 Does not include WORLD MOTOR® features  
 Note 103 Does not accept brake kit  
 Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.





# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient, C-Face Footless



UTF,  
FUTF

## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- World Motor® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes        |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------------|
| 1 1/2 | 1200 | 208-230/460 | 182TC  | U32P3DCR       | \$815   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    | 03           |
| 2     | 1200 | 208-230/460 | 184TC  | U2E3DCR        | \$682   | DS-3AL          | 1.25 | 16.9              | 70             | 86.5           | 7.0-6.8/3.4    | 03,NNP,LA    |
|       | 1200 | 208-230/460 | 184TC  | U2P3DCR        | \$900   | DS-3AL          | 1.15 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    | 03           |
| 3     | 3600 | 208-230/460 | 182TC  | U3E1DCR        | \$688   | DS-3AL          | 1.25 | 16.1              | 58             | 85.5           | 8.7-8/4        | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 182TC  | U3P1DCR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03           |
|       | 3600 | 208-230/460 | 182TCH | U3E1DKR        | \$688   | DS-3AL          | 1.25 | 16.1              | 53             | 85.5           | 8.7-8/4        | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 182TCH | U3P1DKR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03           |
|       | 1800 | 208-230/460 | 182TC  | U3E2DCR        | \$618   | DS-3AL          | 1.25 | 16.1              | 67             | 87.5           | 8.5-7.9/3.9    | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 182TC  | U3P2DCR        | \$742   | DS-3AL          | 1.25 | 16.1              | 60             | 89.5           | 8.4-7.8/3.9    | 03           |
|       | 1800 | 208-230/460 | 182TCH | U3P2DKR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    | 03           |
|       | 1800 | 575         | 182TC  | U3P2GCR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |              |
|       | 1200 | 208-230/460 | 213TC  | U3E3DCR        | \$920   | DS-3AL          | 1.25 | 18.6              | 110            | 87.5           | 9.7-9.1/4.5    | 03,NNP,LA    |
|       | 1200 | 208-230/460 | 213TC  | U3P3DCR        | \$1,105 | DS-3AL          | 1.25 | 18.6              | 105            | 89.5           | 9.3-8.6/4.3    | 03           |
| 5     | 3600 | 208-230/460 | 184TC  | U5E1DCR        | \$845   | DS-3AL          | 1.25 | 16.9              | 120            | 87.5           | 13.8-12.3/6.1  | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 184TC  | U5P1DCR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03           |
|       | 3600 | 208-230/460 | 184TCH | U5P1DKR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03           |
|       | 1800 | 208-230/460 | 184TC  | U5E2DCR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | NNP,LA       |
|       | 1800 | 208-230/460 | 184TC  | U5P2DCR        | \$852   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  | 03           |
|       | 1800 | 208-230/460 | 184TC  | U5P2GCR        | \$852   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  | 03           |
|       | 1800 | 208-230/460 | 184TCH | U5E2DKR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 184TCH | U5P2DKR        | \$852   | DS-3AL          | 1.25 | 16.9              | 70             | 90.2           | 13.6-12.3/6.2  | 03           |
|       | 1200 | 208-230/460 | 215TC  | U5E3DCR        | \$1,278 | DS-3AL          | 1.25 | 20.1              | 140            | 87.5           | 15.6-14.5/7.3  | 03,NNP,LA    |
|       | 1200 | 208-230/460 | 215TC  | U5P3DCR        | \$1,552 | DS-3AL          | 1.25 | 20.1              | 120            | 90.2           | 15-14/7        | 03           |
| 7 1/2 | 3600 | 208-230/460 | 215TC  | U5E3GCR        | \$1,278 | DS-3AL          | 1.25 | 20.1              | 140            | 87.5           | 5.8            | NNP,LA       |
|       | 3600 | 208-230/460 | 213TC  | U7E1DCR        | \$1,045 | DS-3AL          | 1.25 | 18.6              | 100            | 88.5           | 20.4-18.4/9.2  | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 213TC  | U7P1DCR        | \$1,261 | DS-3AL          | 1.25 | 18.6              | 105            | 91.0           | 19.9-17.8/8.9  | 03           |
|       | 1800 | 208-230/460 | 213TC  | U7E2DCR        | \$954   | DS-3AL          | 1.15 | 18.6              | 110            | 89.5           | 20.6-18.8/9.4  | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 213TC  | U7P2DCR        | \$1,147 | DS-3AL          | 1.25 | 18.6              | 110            | 91.7           | 20-18.2/9.1    | 03           |
|       | 1800 | 575         | 213TC  | U7P2GCR        | \$1,147 | DS-3AL          | 1.25 | 18.6              | 105            | 91.7           | 7.2            |              |
|       | 1200 | 208-230/460 | 254TC  | U7E3DCR        | \$1,718 | DS-3AL          | 1.25 | 23.9              | 200            | 89.5           | 20.8-18.8/9.4  | 02,03,NNP,LA |
|       | 1200 | 208-230/460 | 254TC  | U7P3DCR        | \$2,087 | DS-3AL          | 1.25 | 23.9              | 180            | 91.0           | 20.6-19/9.5    | 03           |
|       | 3600 | 208-230/460 | 215TC  | U10E1DCR       | \$1,209 | DS-3AL          | 1.25 | 20.1              | 110            | 89.5           | 26.7-23.8/11.9 | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 215TC  | U10P1DCR       | \$1,466 | DS-3AL          | 1.25 | 20.1              | 120            | 91.0           | 26.4-23.5/11.8 | 03           |
| 10    | 1800 | 208-230/460 | 215TC  | U10E2DCR       | \$1,133 | DS-3AL          | 1.25 | 20.1              | 120            | 89.5           | 27.2-24.6/12.3 | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 215TC  | U10P2DCR       | \$1,371 | DS-3AL          | 1.25 | 20.1              | 133            | 91.7           | 26.5-23.9/12   | 03           |
|       | 1800 | 575         | 215TC  | U10P2GCR       | \$1,371 | DS-3AL          | 1.25 | 20.1              | 120            | 91.7           | 9.6            |              |
|       | 1200 | 208-230/460 | 256TC  | U10E3DCR       | \$2,046 | DS-3AL          | 1.25 | 25.7              | 230            | 89.5           | 27.5-25/12.5   | 02,03,NNP,LA |
|       | 1200 | 208-230/460 | 256TC  | U10P3DCR       | \$2,498 | DS-3AL          | 1.25 | 25.7              | 230            | 91.7           | 27.1-24.6/12.3 | 03           |
|       | 3600 | 208-230/460 | 215TC  | U15E1DFCR      | \$1,450 | DS-3AL          | 1.25 | 20.1              | 120            | 90.2           | 40-35/17.7     | 02,03,NNP,LA |
|       | 3600 | 208-230/460 | 215TC  | U15P1DFCR      | \$1,767 | DS-3AL          | 1.25 | 20.1              | 120            | 91.0           | 40-35/17.4     | 03           |
| 15    | 3600 | 208-230/460 | 254TC  | U15E1DCR       | \$1,739 | DS-3AL          | 1.15 | 23.9              | 210            | 90.2           | 40-35/17.6     | 02,03,NNP,LA |
|       | 3600 | 208-230/460 | 254TC  | U15P1DCR       | \$2,114 | DS-3AL          | 1.25 | 23.9              | 180            | 91.0           | 39-35/17.5     | 03           |
|       | 1800 | 208-230/460 | 254TC  | U15E2DCR       | \$1,578 | DS-3AL          | 1.25 | 23.9              | 220            | 91.0           | 41-37/18.5     | 02,03,NNP,LA |
|       | 1800 | 208-230/460 | 254TC  | U15P2DCR       | \$1,913 | DS-3AL          | 1.15 | 23.9              | 180            | 92.4           | 40-37/18.4     | 03           |
|       | 1800 | 575         | 254TC  | U15P2GCR       | \$1,913 | DS-3AL          | 1.25 | 23.9              | 180            | 92.4           | 14.6           |              |
|       | 3600 | 208-230/460 | 256TC  | U20E1DCR       | \$2,120 | DS-3AL          | 1.25 | 25.7              | 230            | 90.2           | 53-47/23.4     | 02,03,NNP,LA |
| 20    | 3600 | 208-230/460 | 256TC  | U20P1DCR       | \$2,590 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 53-46/23.1     | 03           |
|       | 1800 | 208-230/460 | 256TC  | U20E2DCR       | \$1,913 | DS-3AL          | 1.25 | 25.7              | 250            | 91.0           | 54-49/24.3     | 02,03,NNP,LA |
|       | 1800 | 208-230/460 | 256TC  | U20P2DCR       | \$2,331 | DS-3AL          | 1.25 | 25.8              | 230            | 93.0           | 53-47/23.5     | 03           |
|       | 3600 | 208-230/460 | 284TC  | U25P1DCR       | \$3,208 | DS-3AL          | 1.25 | 28.3              | 280            | 91.7           | 65-57/28.4     | 03           |
| 25    | 1800 | 208-230/460 | 284TC  | U25E2DCR       | \$2,312 | DS-3AL          | 1.25 | 28.3              | 290            | 92.4           | 67-59/29.6     | 02,03,NNP,LA |
|       | 1800 | 208-230/460 | 284TC  | U25P2DCR       | \$2,830 | DS-3AL          | 1.25 | 28.3              | 280            | 93.6           | 65-59/29.3     | 03           |
| 30    | 1800 | 208-230/460 | 286TC  | U30E2DCR       | \$2,666 | DS-3AL          | 1.25 | 28.3              | 320            | 92.4           | 80-72/36       | 02,03,NNP,LA |
|       | 1800 | 208-230/460 | 286TC  | U30P2DCR       | \$3,273 | DS-3AL          | 1.25 | 28.3              | 300            | 93.6           | 78-70/35       | 03           |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note LA Limited Availability

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

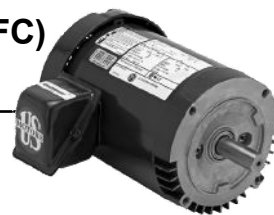
COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footless



## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®1 Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame and Up)
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes      |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|------------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | 1.25 | 10.8              | 23             | 70.0           | 1-1/0.5        | 16         |
|       | 1200 | 208-230/460 | 56C   | T14S3DCR       | \$308 | DS-3RST         | 1.15 | 11.3              | 27             | 75.5           | 1.4-1.4/0.7    | 26,103     |
| 1/3   | 3600 | 208-230/460 | 56C   | T13S1ACR       | \$279 | DS-3RST         | 1.15 | 10.9              | 32             | 74.6           | 1.7-1.8/0.9    | 103        |
|       | 1800 | 208-230/460 | 42CZ  | T13S2D42ZCR    | \$266 | DS-3RST         | 1.00 | 11.6              | 9              | 75.5           | 1.5-1.5/0.75   | 26         |
|       | 1800 | 208-230/460 | 56C   | U13S2ACR       | \$266 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.2-1.2/0.6    | 16         |
|       | 1800 | 575         | 56C   | T13S2GCR       | \$266 | DS-3RST         | 1.15 | 11.4              | 26             | 75.3           | 0.59           | 103        |
|       | 1200 | 208-230/460 | 56C   | T13S3DCR       | \$346 | DS-3RST         | 1.15 | 11.3              | 32             | 77.0           | 1.6-1.6/0.80   | 26,103     |
| 1/2   | 3600 | 208-230/460 | 56C   | T12S1ACR       | \$291 | DS-3RST         | 1.15 | 10.9              | 32             | 64.0           | 2.18-2.18/1.09 | 103        |
|       | 1800 | 208-230/460 | 56C   | U12P2DCR       | \$378 | DS-3RST         | 0.00 | 12.1              | 30             | 82.5           | 1.8-1.9/0.9    | 03         |
|       | 1800 | 208-230/460 | 56C   | U12S2ACR       | \$291 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.8-1.7/0.9    | 16         |
|       | 1800 | 575         | 56C   | U12S2GCR       | \$291 | DS-3RST         | 1.25 | 10.8              | 27             | 74.0           | 0.7            |            |
|       | 1200 | 208-230/460 | 56C   | U12S3ACR       | \$378 | DS-3RST         | 1.25 | 10.8              | 25             | 72.0           | 2.1-2.1/1      | 16         |
| 3/4   | 3600 | 208-230/460 | 56C   | U34S1ACR       | \$304 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 2.4-2.2/1.1    | 16         |
|       | 1800 | 208-230/460 | 56C   | U34P2DCR       | \$408 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 2.4-2.3/1.1    | 03         |
|       | 1800 | 208-230/460 | 56C   | U34S2ACR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 78.5           | 2.6-2.7/1.3    | 16         |
|       | 1800 | 575         | 56C   | U34S2GCR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 0.9            |            |
|       | 1200 | 208-230/460 | 56C   | U34S3ACR       | \$449 | DS-3RST         | 1.15 | 12.9              | 32             | 79.6           | 3.1-3.2/1.6    | 103        |
| 1     | 3600 | 208-230/460 | 56C   | U1P1DCR        | \$488 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03         |
|       | 3600 | 208-230/460 | 56C   | U1S1ACR        | \$345 | DS-3RST         | 1.25 | 10.8              | 38             | 75.5           | 3.2-2.9/1.4    | 16,NNP,LA  |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$425 | DS-3RST         | 1.25 | 10.8              | 30             | 85.5           | 3.1-3.0/1.5    | 03         |
|       | 1800 | 208-230/460 | 143TC | U1E2DCR        | \$403 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 3.1-3/1.5      | NNP,LA     |
|       | 1800 | 208-230/460 | 143TC | U1P2DCR        | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03         |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03         |
|       | 1800 | 208-230/460 | 56C   | U1S2AFCR       | \$332 | DS-3RST         | 1.25 | 10.8              | 31             | 80.0           | 3.3-3.4/1.7    | 16,NNP,LA  |
|       | 1800 | 575         | 56C   | U1P2GFCR       | \$425 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            |            |
|       | 1800 | 575         | 56C   | U1S2GFCR       | \$332 | DS-3RST         | 1.25 | 12.1              | 31             | 80.0           | 1.4            | NNP,LA     |
|       | 1200 | 208-230/460 | 56C   | T1S3ACR        | \$456 | DS-3RST         | 1.15 | 13.4              | 32             | 83.0           | 3.7-3.8/1.9    | 103,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 143TC | U32E1A14CR     | \$552 | DS-3RST         | 1.15 | 11.9              | 32             | 84.0           | 4.9-5.0/2.5    | 103,NNP,LA |
|       | 3600 | 208-230/460 | 56C   | T32P1ACR       | \$485 | DS-3RST         | 1.15 | 12.3              | 32             | 84.0           | 4.9-5.0/2.5    |            |
|       | 3600 | 208-230/460 | 56C   | T32S1ACR       | \$385 | DS-3RST         | 1.15 | 11.9              | 27             | 80.0           | 4.7-4.5/2.2    | 103,NNP,LA |
|       | 1800 | 208-230/460 | 145TC | U32E2DCR       | \$439 | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 4.6-4.3/2.2    | NNP,LA     |
|       | 1800 | 208-230/460 | 145TC | U32P2DCR       | \$534 | DS-3RST         | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1    | 03         |
|       | 1800 | 208-230/460 | 56C   | T32E2ACR       | \$439 | DS-3RST         | 1.25 | 12.9              | 32             | 84.0           | 4.5-4.5/2.2    | 103,NNP,LA |
|       | 1800 | 208-230/460 | 56C   | U32P2DFCR      | \$426 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03         |
|       | 1800 | 208-230/460 | 56C   | U32S2AFCR      | \$369 | DS-3RST         | 1.25 | 10.8              | 33             | 81.5           | 4.7-4.7/2.3    | 16,NNP,LA  |
|       | 1800 | 575         | 145TC | U32E2GCR       | \$439 | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 1.8            | NNP,LA     |
|       | 1800 | 575         | 56C   | U32P2GFCR      | \$426 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            |            |
|       | 1200 | 208-230/460 | 56C   | T32S3ACR       | \$564 | DS-3RST         | 1.15 | 14.4              | 32             | -              | 5.4-5.3/2.6    | 103,NNP,LA |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power.

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®1 (MG-1) performance standards when operated at 208 volts.

Note 26 Does not include World Motor® features.

Note 103 Does not accept brake kit.

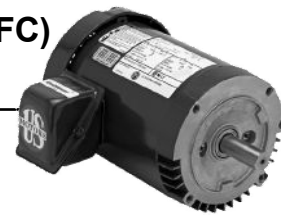
Note LA Limited Availability

Note NNP Non-NEMA®1 Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footless



(continued)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes      |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|------------|
| 2     | 3600 | 208-230/460 | 56C   | T2P1ACR        | \$529   | DS-3RST         | 1.15 | 13.6              | 35             | 85.5           | 6.0-5.6/2.8    | 04,16,26   |
|       | 3600 | 208-230/460 | 56C   | T2S1ACR        | \$460   | DS-3RST         | 1.15 | 11.9              | 32             | 80.0           | 6.0-5.4/2.7    | 103,NNP,LA |
|       | 1800 | 208-230/460 | 145TC | U2E2DCR        | \$475   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 6.1-5.9/2.9    | ,NNP,LA    |
|       | 1800 | 208-230/460 | 145TC | U2P2DCR        | \$578   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 5.9-5.7/2.8    | 03         |
|       | 1800 | 208-230/460 | 56C   | U2P2DFCR       | \$467   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03         |
|       | 1800 | 208-230/460 | 56C   | U2S2AFCR       | \$406   | DS-3RST         | 1.25 | 12.1              | 43             | 82.5           | 6.2-6.2/3.1    | 16,NNP,LA  |
| 3     | 3600 | 208-230/460 | 145TC | U3E1A14CR      | \$528   | DS-3RST         | 1.25 | 13.4              | 32             | 85.5           | 8.5-7.3/3.6    | 103,NNP,LA |
|       | 3600 | 208-230/460 | 145TC | U3P1A14CR      | \$607   | DS-3RST         | 1.25 | 13.9              | 34             | 86.5           | 7.4-7.5/3.7    | 04,16,26   |
|       | 3600 | 208-230/460 | 56C   | T3P1ACR        | \$583   | DS-3RST         | 1.15 | 14.1              | 40             | 86.5           | 7.9-6.7/3.4    |            |
|       | 3600 | 208-230/460 | 56C   | T3S1ACR        | \$507   | DS-3RST         | 1.15 | 13.4              | 32             | 86.0           | 8.5-7.3/3.6    | 103,NNP,LA |
|       | 1800 | 208-230/460 | 182TC | S3E2ACR        | \$569   | DS-3RST         | 1.15 | 15.9              | 85             | 87.5           | 8.5-7.9/3.9    | 26,NNP,LA  |
|       | 1800 | 208-230/460 | 182TC | S3P2ACR        | \$639   | DS-3RST         | 1.15 | 15.9              | 60             | 89.5           | 8.4-7.8/3.9    | 04,16,26   |
|       | 1800 | 208-230/460 | 56C   | T3S2ACR        | \$517   | DS-3RST         | 1.00 | 14.9              | 50             | 87.5           | 9.5-9.2/4.6    | 103,NNP,LA |
| 5     | 3600 | 208-230/460 | 184TC | S5E1ACR        | \$655   | DS-3RST         | 1.15 | 15.9              | 65             | 87.5           | 13.7-12.3/6.1  | 26,NNP,LA  |
|       | 3600 | 208-230/460 | 184TC | S5P1ACR        | \$740   | DS-3RST         | 1.15 | 15.9              | 70             | 88.5           | 13.6-12.1/6.1  | 04,16,26   |
|       | 1800 | 208-230/460 | 184TC | S5E2ACR        | \$655   | DS-3RST         | 1.15 | 15.9              | 110            | 87.5           | 14.2-12.8/6.4  | 26,NNP,LA  |
|       | 1800 | 208-230/460 | 184TC | S5P2ACR        | \$740   | DS-3RST         | 1.15 | 15.9              | 70             | 89.5           | 13.5-12.5/6.2  | 04,16,26   |
| 7 1/2 | 3600 | 208-230/460 | 213TC | S7E1ACR        | \$959   | DS-3RST         | 1.15 | 19.4              | 55             | 88.5           | 20.6-18.4/9.2  | 26,NNP,LA  |
|       | 3600 | 208-230/460 | 213TC | S7P1ACR        | \$1,083 | DS-3RST         | 1.15 | 19.4              | 105            | 89.5           | 19.9-17.9/9    | 04,16,26   |
|       | 3600 | 575         | 213TC | S7P1GCR        | \$1,083 | DS-3RST         | 1.15 | 19.4              | 105            | 89.5           | 7.2            |            |
|       | 1800 | 208-230/460 | 213TC | S7E2ACR        | \$913   | DS-3RST         | 1.15 | 19.4              | 90             | 89.5           | 20.1-18.3/9.1  | 26,NNP,LA  |
|       | 1800 | 208-230/460 | 213TC | S7P2ACR        | \$1,029 | DS-3RST         | 1.15 | 19.4              | 105            | 91.7           | 20-18.1/9.1    | 04,16,26   |
|       | 1800 | 575         | 213TC | S7P2GCR        | \$1,029 | DS-3RST         | 1.15 | 19.4              | 105            | 91.7           | 7.2            |            |
| 10    | 3600 | 208-230/460 | 215TC | S10P1ACR       | \$1,291 | DS-3RST         | 1.15 | 19.4              | 120            | 90.2           | 26.5-23.5/11.7 | 04,16,26   |
|       | 3600 | 575         | 215TC | S10P1GCR       | \$1,291 | DS-3RST         | 1.15 | 19.4              | 120            | 90.2           | 9.4            |            |
|       | 1800 | 208-230/460 | 215TC | S10E2ACR       | \$1,081 | DS-3RST         | 1.15 | 19.4              | 120            | 89.5           | 26.6-23.8/11.9 | 26,NNP,LA  |
|       | 1800 | 208-230/460 | 215TC | S10P2ACR       | \$1,227 | DS-3RST         | 1.15 | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26   |
|       | 1800 | 575         | 215TC | S10P2GCR       | \$1,227 | DS-3RST         | 1.15 | 19.4              | 120            | 91.7           | 9.5            |            |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 04 On 60 Hertz Sine Wave power.  
Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts.

Note 26 Does not include World Motor® features.  
Note 103 Does not accept brake kit.  
Note LA Limited Availability  
Note NNP Non-NEMA® Premium Rating

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA® Premium Efficient – IE3


**NEMA**  
Premium

CTE

## APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries requiring protection within harsh operating conditions.

## FEATURES:

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Stainless Steel Nameplate (with CE Mark) & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- 40°C Ambient, NEMA® Design B Performance On 60 Hz Sine Wave Power
- Regreasable Ball Bearings 250 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360, Open On 400-440
- 1.15 Service Factor @ 60 Hz
- Steel Fan Cover & Conduit Box
- Field Convertible To F2 Mounting 180 Frame & Larger
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits (except 320-360)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 200         | 143T  | H1P2H          | \$498   | DS-3HD          | 1.15 | 12.9              | 65             | 85.5           | 3.4            |       |
|       | 1800 | 208-230/460 | 143T  | H1P2D          | \$498   | DS-3HD          | 1.15 | 12.9              | 65             | 85.5           | 3.1-3/1.5      | 03    |
|       | 1800 | 575         | 143T  | H1P2G          | \$498   | DS-3HD          | 1.15 | 12.9              | 65             | 85.5           | 1.1            |       |
|       | 1200 | 200         | 145T  | H1P3H          | \$677   | DS-3HD          | 1.15 | 13.1              | 70             | 82.5           | 4.1            |       |
|       | 1200 | 208-230/460 | 145T  | H1P3D          | \$677   | DS-3HD          | 1.15 | 13.1              | 70             | 82.5           | 3.6-3.5/1.8    | 03    |
|       | 1200 | 575         | 145T  | H1P3G          | \$677   | DS-3HD          | 1.15 | 13.1              | 70             | 82.5           | 1.4            |       |
| 1 1/2 | 3600 | 200         | 143T  | H32P1H         | \$574   | DS-3HD          | 1.15 | 12.9              | 60             | 84.0           | 4.4            |       |
|       | 3600 | 208-230/460 | 143T  | H32P1D         | \$574   | DS-3HD          | 1.15 | 12.9              | 65             | 84.0           | 4.2-3.9/1.9    | 03    |
|       | 1800 | 200         | 145T  | H32P2H         | \$552   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 4.7            |       |
|       | 1800 | 208-230/460 | 145T  | H32P2D         | \$552   | DS-3HD          | 1.15 | 12.9              | 70             | 86.5           | 4.5-4.3/2.1    | 03    |
|       | 1800 | 575         | 145T  | H32P2G         | \$552   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 1.7            |       |
|       | 1200 | 200         | 182T  | H32P3H         | \$751   | DS-3HD          | 1.15 | 16.0              | 85             | 87.5           | 5.4            |       |
| 2     | 1200 | 208-230/460 | 182T  | H32P3D         | \$751   | DS-3HD          | 1.15 | 16.0              | 138            | 87.5           | 4.8-4.7/2.3    | 03    |
|       | 3600 | 200         | 145T  | H2P1H          | \$682   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 5.6            |       |
|       | 3600 | 208-230/460 | 145T  | H2P1D          | \$682   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 5.4-4.9/2.4    | 03    |
|       | 3600 | 575         | 145T  | H2P1G          | \$682   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 1.9            |       |
|       | 1800 | 200         | 145T  | H2P2H          | \$605   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 6.2            |       |
|       | 1800 | 208-230/460 | 145T  | H2P2D          | \$605   | DS-3HD          | 1.15 | 13.1              | 70             | 86.5           | 5.9-5.7/2.9    | 03    |
|       | 1800 | 575         | 145T  | H2P2G          | \$605   | DS-3HD          | 1.15 | 13.0              | 70             | 86.5           | 2.3            |       |
|       | 1200 | 200         | 184T  | H2P3H          | \$836   | DS-3HD          | 1.15 | 16.0              | 95             | 88.5           | 7.2            |       |
|       | 1200 | 208-230/460 | 184T  | H2P3D          | \$836   | DS-3HD          | 1.15 | 16.0              | 95             | 88.5           | 6.4-6.2/3.1    | 03    |
|       | 1200 | 575         | 184T  | H2P3G          | \$836   | DS-3HD          | 1.15 | 16.0              | 95             | 88.5           | 2.5            |       |
| 3     | 3600 | 200         | 182T  | H3P1H          | \$767   | DS-3HD          | 1.15 | 16.0              | 85             | 86.5           | 8.8            |       |
|       | 3600 | 208-230/460 | 182T  | H3P1D          | \$767   | DS-3HD          | 1.25 | 16.0              | 85             | 87.5           | 8.4-7.8/3.9    | 03    |
|       | 3600 | 575         | 182T  | H3P1G          | \$767   | DS-3HD          | 1.15 | 16.0              | 100            | 87.5           | 3.1            |       |
|       | 1800 | 200         | 182T  | H3P2H          | \$678   | DS-3HD          | 1.15 | 16.0              | 85             | 89.5           | 9.1            |       |
|       | 1800 | 208-230/460 | 182T  | H3P2D          | \$678   | DS-3HD          | 1.15 | 16.0              | 100            | 89.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 575         | 182T  | H3P2G          | \$678   | DS-3HD          | 1.15 | 16.0              | 85             | 89.5           | 3.2            |       |
|       | 1200 | 200         | 213T  | H3P3H          | \$1,036 | DS-3HD          | 1.15 | 19.2              | 150            | 89.5           | 10.1           |       |
|       | 1200 | 208-230/460 | 213T  | H3P3D          | \$1,036 | DS-3HD          | 1.15 | 19.2              | 157            | 89.5           | 9.3-8.8/4.4    |       |
| 5     | 1200 | 575         | 213T  | H3P3G          | \$1,036 | DS-3HD          | 1.15 | 19.2              | 157            | 89.5           | 3.5            |       |
|       | 3600 | 200         | 184T  | H5P1H          | \$962   | DS-3HD          | 1.15 | 16.0              | 100            | 88.5           | 14             |       |
|       | 3600 | 208-230/460 | 184T  | H5P1D          | \$962   | DS-3HD          | 1.25 | 16.0              | 100            | 88.5           | 13.4-12.2/6.1  | 03    |
|       | 3600 | 575         | 184T  | H5P1G          | \$962   | DS-3HD          | 1.15 | 16.0              | 100            | 89.5           | 4.9            |       |
|       | 1800 | 200         | 184T  | H5P2H          | \$788   | DS-3HD          | 1.15 | 16.0              | 100            | 89.5           | 14.6           |       |
|       | 1800 | 208-230/460 | 184T  | H5P2D          | \$788   | DS-3HD          | 1.15 | 16.0              | 100            | 89.5           | 13.9-12.8/6.4  | 03    |
|       | 1800 | 575         | 184T  | H5P2G          | \$788   | DS-3HD          | 1.15 | 16.0              | 110            | 89.5           | 5.1            |       |
|       | 1200 | 200         | 215T  | H5P3H          | \$1,483 | DS-3HD          | 1.15 | 19.2              | 150            | 89.5           | 15.9           |       |
|       | 1200 | 208-230/460 | 215T  | H5P3D          | \$1,483 | DS-3HD          | 1.15 | 19.2              | 179            | 90.2           | 15-14/7        |       |
|       | 1200 | 575         | 215T  | H5P3G          | \$1,483 | DS-3HD          | 1.15 | 19.2              | 150            | 90.2           | 5.6            |       |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA® Premium Efficient – IE3



**NEMA**  
Premium

(continued)

CTE

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 7 1/2 | 3600 | 200         | 213T  | H7P1H          | \$1,192 | DS-3HD          | 1.15 | 19.2              | 150            | 90.2           | 20.6           |           |
|       | 3600 | 208-230/460 | 213T  | H7P1D          | \$1,192 | DS-3HD          | 1.15 | 19.2              | 160            | 91.0           | 19.9-17.8/8.9  | 03        |
|       | 3600 | 575         | 213T  | H7P1G          | \$1,192 | DS-3HD          | 1.15 | 19.2              | 160            | 91.7           | 7.1            | 14        |
|       | 1800 | 200         | 213T  | H7P2H          | \$1,078 | DS-3HD          | 1.15 | 19.2              | 150            | 91.7           | 21.5           |           |
|       | 1800 | 208-230/460 | 213T  | H7P2D          | \$1,078 | DS-3HD          | 1.15 | 19.2              | 163            | 91.7           | 20.1-18.6/9.3  |           |
|       | 1800 | 575         | 213T  | H7P2G          | \$1,078 | DS-3HD          | 1.15 | 19.2              | 163            | 91.7           | 7.5            |           |
|       | 1200 | 200         | 254T  | H7P3H          | \$1,979 | DS-3HD          | 1.15 | 25.3              | 300            | 91.0           | 21.9           | 02        |
|       | 1200 | 208-230/460 | 254T  | H7P3D          | \$1,979 | DS-3HD          | 1.15 | 25.3              | 300            | 91.7           | 20.6-18.8/9.4  | 02        |
|       | 1200 | 575         | 254T  | H7P3G          | \$1,979 | DS-3HD          | 1.15 | 25.3              | 300            | 91.0           | 7.6            | 02        |
| 10    | 3600 | 200         | 215T  | H10P1H         | \$1,397 | DS-3HD          | 1.15 | 19.2              | 180            | 91.0           | 27             |           |
|       | 3600 | 208-230/460 | 215T  | H10P1D         | \$1,397 | DS-3HD          | 1.15 | 19.2              | 180            | 91.0           | 26.4-23.5/11.8 |           |
|       | 3600 | 575         | 215T  | H10P1G         | \$1,397 | DS-3HD          | 1.15 | 19.2              | 180            | 91.0           | 9.4            |           |
|       | 1800 | 200         | 215T  | H10P2H         | \$1,302 | DS-3HD          | 1.15 | 19.2              | 190            | 91.7           | 27.5           |           |
|       | 1800 | 208-230/460 | 215T  | H10P2D         | \$1,302 | DS-3HD          | 1.15 | 19.2              | 190            | 91.7           | 26.5-23.9/12   |           |
|       | 1800 | 575         | 215T  | H10P2G         | \$1,302 | DS-3HD          | 1.15 | 19.2              | 190            | 91.7           | 9.6            |           |
|       | 1200 | 200         | 256T  | H10P3H         | \$2,390 | DS-3HD          | 1.15 | 25.3              | 340            | 91.0           | 28.4           | 02        |
|       | 1200 | 208-230/460 | 256T  | H10P3D         | \$2,390 | DS-3HD          | 1.15 | 25.3              | 340            | 91.7           | 27.1-24.6/12.3 | 02        |
|       | 1200 | 575         | 256T  | H10P3G         | \$2,390 | DS-3HD          | 1.15 | 25.3              | 340            | 91.7           | 9.8            | 02        |
| 15    | 3600 | 200         | 254T  | H15P1H         | \$1,999 | DS-3HD          | 1.15 | 25.3              | 300            | 91.0           | 40             | 02        |
|       | 3600 | 208-230/460 | 254T  | H15P1D         | \$1,999 | DS-3HD          | 1.15 | 25.3              | 300            | 91.0           | 39-35/17.4     | 02,03     |
|       | 3600 | 575         | 254T  | H15P1G         | \$1,999 | DS-3HD          | 1.15 | 25.3              | 300            | 91.0           | 13.9           | 02        |
|       | 1800 | 200         | 254T  | H15P2H         | \$1,798 | DS-3HD          | 1.15 | 25.3              | 300            | 92.4           | 42             | 02        |
|       | 1800 | 208-230/460 | 254T  | H15P2D         | \$1,798 | DS-3HD          | 1.15 | 25.3              | 300            | 92.4           | 40-36/18.2     | 02,03     |
|       | 1800 | 575         | 254T  | H15P2G         | \$1,798 | DS-3HD          | 1.15 | 25.3              | 300            | 92.4           | 14.6           |           |
|       | 1200 | 200         | 284T  | H15P3H         | \$3,331 | DS-3HD          | 1.15 | 27.0              | 385            | 91.7           | 42             | 02,14     |
|       | 1200 | 208-230/460 | 284T  | H15P3D         | \$3,331 | DS-3HD          | 1.15 | 27.0              | 385            | 91.7           | 41-37/18.4     | 02,03,14  |
|       | 1200 | 575         | 284T  | H15P3G         | \$3,331 | DS-3HD          | 1.15 | 27.0              | 284            | 91.7           | 14.8           | 02,14     |
|       | 900  | 200         | 286T  | H15E4H         | \$4,938 | DS-3HD          | 1.15 | 27.0              | 390            | 88.5           | 50             | 02,NNP,LA |
| 20    | 3600 | 200         | 256T  | H20P1H         | \$2,475 | DS-3HD          | 1.15 | 25.3              | 340            | 91.0           | 53             | 02        |
|       | 3600 | 208-230/460 | 256T  | H20P1D         | \$2,475 | DS-3HD          | 1.15 | 25.3              | 340            | 91.0           | 53-46/23.1     | 02,03     |
|       | 3600 | 575         | 256T  | H20P1G         | \$2,475 | DS-3HD          | 1.15 | 25.3              | 340            | 91.0           | 18.5           | 02        |
|       | 1800 | 200         | 256T  | H20P2H         | \$2,216 | DS-3HD          | 1.15 | 25.3              | 340            | 93.0           | 54             | 02        |
|       | 1800 | 208-230/460 | 256T  | H20P2D         | \$2,216 | DS-3HD          | 1.15 | 25.3              | 340            | 93.0           | 53-47/23.5     | 02,03     |
|       | 1800 | 575         | 256T  | H20P2G         | \$2,216 | DS-3HD          | 1.15 | 25.3              | 340            | 93.0           | 19             | 02        |
|       | 1200 | 200         | 286T  | H20P3H         | \$4,035 | DS-3HD          | 1.15 | 27.0              | 286            | 91.7           | 57             | 02,14     |
|       | 1200 | 208-230/460 | 286T  | H20P3D         | \$4,035 | DS-3HD          | 1.00 | 27.0              | 400            | 91.7           | 54-49/24.5     | 02,03,14  |
|       | 1200 | 575         | 286T  | H20P3G         | \$4,035 | DS-3HD          | 1.15 | 27.0              | 400            | 91.7           | 19.7           | 02,14     |
| 25    | 3600 | 200         | 284TS | H25P1HS        | \$3,036 | DS-3HD          | 1.15 | 25.6              | 355            | 91.7           | 67             | 02        |
|       | 3600 | 208-230/460 | 284T  | H25P1D         | \$3,036 | DS-3HD          | 1.15 | 27.0              | 355            | 91.7           | 66-57/28.7     | 02,03     |
|       | 3600 | 208-230/460 | 284TS | H25P1DS        | \$3,036 | DS-3HD          | 1.15 | 25.6              | 355            | 91.7           | 66-57/28.7     | 02,03     |
|       | 3600 | 575         | 284TS | H25P1GS        | \$3,036 | DS-3HD          | 1.15 | 25.6              | 355            | 91.7           | 23             | 02        |
|       | 1800 | 200         | 284T  | H25P2H         | \$2,659 | DS-3HD          | 1.15 | 27.0              | 355            | 93.6           | 66             | 02        |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 14 NEMA® Design A  
 Note NNP Non-NEMA Premium Rating

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GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING-TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA®† Premium Efficient – IE3


**NEMA**  
Premium

(continued)

CTE

| HP   | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF     | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|------|------|-------------|-------|----------------|---------|-----------------|--------|-------------------|----------------|----------------|----------------|----------|
| 25   | 1800 | 200         | 284TS | H25P2HS        | \$2,659 | DS-3HD          | 1.15   | 25.6              | 355            | 93.6           | 66             | 02       |
|      | 1800 | 208-230/460 | 284T  | H25P2D         | \$2,659 | DS-3HD          | 1.15   | 27.0              | 355            | 93.6           | 64-58/28.9     | 02,03    |
|      | 1800 | 208-230/460 | 284TS | H25P2DS        | \$2,659 | DS-3HD          | 1.15   | 25.6              | 355            | 93.6           | 64-58/28.9     | 02,03    |
|      | 1800 | 575         | 284T  | H25P2G         | \$2,659 | DS-3HD          | 1.15   | 27.0              | 355            | 93.6           | 23             | 02       |
|      | 1800 | 575         | 284TS | H25P2GS        | \$2,659 | DS-3HD          | 1.15   | 25.6              | 355            | 93.6           | 23             | 02       |
|      | 1200 | 200         | 324T  | H25P3H         | \$4,801 | DS-3HD          | 1.15   | 30.6              | 510            | 93.0           | 71             | 02,14    |
|      | 1200 | 230/460     | 324T  | H25P3E         | \$4,801 | DS-3HD          | 1.15   | 30.6              | 510            | 93.0           | 62/31          | 02,03,14 |
|      | 1200 | 575         | 324T  | H25P3G         | \$4,801 | DS-3HD          | 1.15   | 30.6              | 510            | 93.0           | 24.6           | 02,14    |
| 30   | 3600 | 200         | 286TS | H30P1HS        | \$3,560 | DS-3HD          | 1.15   | 25.6              | 400            | 91.7           | 79             | 02       |
|      | 3600 | 208-230/460 | 286T  | H30P1D         | \$3,560 | DS-3HD          | 1.15   | 27.0              | 400            | 91.7           | 79-69/34       | 02,03    |
|      | 3600 | 208-230/460 | 286TS | H30P1DS        | \$3,560 | DS-3HD          | 1.15   | 25.6              | 400            | 91.7           | 79-69/34       | 02,03    |
|      | 3600 | 575         | 286TS | H30P1GS        | \$3,560 | DS-3HD          | 1.15   | 25.8              | 400            | 91.7           | 27.6           | 02       |
|      | 1800 | 200         | 286T  | H30P2H         | \$3,101 | DS-3HD          | 1.15   | 27.0              | 415            | 93.6           | 80             | 02       |
|      | 1800 | 200         | 286TS | H30P2HS        | \$3,101 | DS-3HD          | 1.15   | 25.6              | 415            | 93.6           | 80             | 02       |
|      | 1800 | 208-230/460 | 286T  | H30P2D         | \$3,101 | DS-3HD          | 1.15   | 27.0              | 415            | 93.6           | 77-69/34       | 03       |
|      | 1800 | 208-230/460 | 286TS | H30P2DS        | \$3,101 | DS-3HD          | 1.15   | 25.6              | 415            | 93.6           | 77-69/35       | 03       |
|      | 1800 | 575         | 286T  | H30P2G         | \$3,101 | DS-3HD          | 1.15   | 27.0              | 415            | 93.6           | 27.6           | 02       |
|      | 1800 | 575         | 286TS | H30P2GS        | \$3,101 | DS-3HD          | 1.15   | 25.6              | 415            | 93.6           | 27.6           | 02       |
|      | 1200 | 200         | 326T  | H30P3H         | \$5,665 | DS-3HD          | 1.15   | 30.6              | 590            | 93.0           | 84             | 02,14    |
|      | 1200 | 230/460     | 326T  | H30P3E         | \$5,665 | DS-3HD          | 1.15   | 30.6              | 590            | 93.0           | 74/37          | 02,03,14 |
|      | 1200 | 575         | 326T  | H30P3G         | \$5,665 | DS-3HD          | 1.15   | 30.6              | 590            | 93.0           | 29.6           | 02,14    |
|      | 40   | 3600        | 200   | 324TS          | H40P1HS | \$4,600         | DS-3HD | 1.15              | 29.1           | 460            | 93.0           | 104      |
| 3600 |      | 230/460     | 324TS | H40P1ES        | \$4,600 | DS-3HD          | 1.15   | 29.1              | 460            | 93.0           | 90/45          | 02,03,14 |
| 3600 |      | 575         | 324TS | H40P1GS        | \$4,600 | DS-3HD          | 1.15   | 29.1              | 460            | 93.0           | 36             | 02,14    |
| 1800 |      | 200         | 324T  | H40P2H         | \$4,049 | DS-3HD          | 1.15   | 30.6              | 510            | 94.1           | 104            | 02       |
| 1800 |      | 200         | 324TS | H40P2HS        | \$4,049 | DS-3HD          | 1.15   | 29.1              | 510            | 94.1           | 104            | 02       |
| 1800 |      | 230/460     | 324T  | H40P2E         | \$4,049 | DS-3HD          | 1.15   | 30.6              | 510            | 94.1           | 90/45          | 02,03    |
| 1800 |      | 230/460     | 324TS | H40P2ES        | \$4,049 | DS-3HD          | 1.15   | 29.1              | 510            | 94.1           | 90/45          | 02,03    |
| 1800 |      | 575         | 324T  | H40P2G         | \$4,049 | DS-3HD          | 1.15   | 30.6              | 510            | 94.1           | 36             | 02       |
| 1800 |      | 575         | 324TS | H40P2GS        | \$4,049 | DS-3HD          | 1.15   | 29.1              | 510            | 94.1           | 36             | 02       |
| 1200 |      | 200         | 364T  | H40P3H         | \$7,630 | DS-3HD          | 1.15   | 32.6              | 800            | 94.1           | 106            | 02       |
| 1200 |      | 230/460     | 364T  | H40P3E         | \$7,630 | DS-3HD          | 1.15   | 32.6              | 800            | 93.6           | 93/46          | 02,03    |
| 1200 |      | 575         | 364T  | H40P3G         | \$7,630 | DS-3HD          | 1.15   | 32.6              | 800            | 94.1           | 37             | 02       |
| 50   |      | 3600        | 200   | 326TS          | H50P1HS | \$5,919         | DS-3HD | 1.15              | 29.1           | 550            | 93.0           | 129      |
|      | 3600 | 230/460     | 326TS | H50P1ES        | \$5,919 | DS-3HD          | 1.15   | 29.1              | 550            | 93.0           | 112/56         | 02,03    |
|      | 3600 | 575         | 326TS | H50P1GS        | \$5,919 | DS-3HD          | 1.15   | 29.1              | 550            | 93.0           | 45             | 02       |
|      | 1800 | 200         | 326T  | H50P2H         | \$4,971 | DS-3HD          | 1.15   | 30.6              | 590            | 94.5           | 129            | 02,14    |
|      | 1800 | 200         | 326TS | H50P2HS        | \$4,971 | DS-3HD          | 1.15   | 29.1              | 590            | 94.5           | 129            | 02,14    |
|      | 1800 | 230/460     | 326T  | H50P2E         | \$4,971 | DS-3HD          | 1.15   | 30.6              | 590            | 94.5           | 112/56         | 02,03    |
|      | 1800 | 230/460     | 326TS | H50P2ES        | \$4,971 | DS-3HD          | 1.15   | 29.1              | 590            | 94.5           | 112/56         | 02,03    |
|      | 1800 | 575         | 326T  | H50P2G         | \$4,971 | DS-3HD          | 1.15   | 30.6              | 590            | 94.5           | 45             | 02       |
|      | 1800 | 575         | 326TS | H50P2GS        | \$4,971 | DS-3HD          | 1.15   | 29.1              | 590            | 94.5           | 45             | 02       |
|      | 1200 | 200         | 365T  | H50P3H         | \$8,790 | DS-3HD          | 1.15   | 32.6              | 890            | 94.1           | 133            | 02       |
|      | 1200 | 230/460     | 365T  | H50P3E         | \$8,790 | DS-3HD          | 1.15   | 32.6              | 890            | 94.1           | 115/58         | 02,03    |
|      | 1200 | 575         | 365T  | H50P3G         | \$8,790 | DS-3HD          | 1.15   | 32.6              | 890            | 93.6           | 46             | 02       |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 14 NEMA®† Design A

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA®† Premium Efficient – IE3



**NEMA**  
Premium

(continued)

CTE

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 60  | 3600 | 200     | 364TS | H60P1HS        | \$7,901  | DS-3HD          | 1.15 | 30.4              | 825            | 93.6           | 154            | 02,14    |
|     | 3600 | 230/460 | 364TS | H60P1ES        | \$7,901  | DS-3HD          | 1.15 | 30.4              | 825            | 93.0           | 134/67         | 02,03    |
|     | 3600 | 575     | 364TS | H60P1GS        | \$7,901  | DS-3HD          | 1.15 | 30.4              | 825            | 93.6           | 53             | 02,14    |
|     | 1800 | 200     | 364T  | H60P2H         | \$7,228  | DS-3HD          | 1.15 | 32.6              | 865            | 95.0           | 155            | 02       |
|     | 1800 | 200     | 364TS | H60P2HS        | \$7,228  | DS-3HD          | 1.15 | 30.4              | 865            | 95.0           | 155            | 02       |
|     | 1800 | 230/460 | 364T  | H60P2E         | \$7,228  | DS-3HD          | 1.15 | 32.6              | 865            | 95.0           | 136/68         | 02,03    |
|     | 1800 | 230/460 | 364TS | H60P2ES        | \$7,228  | DS-3HD          | 1.15 | 30.4              | 865            | 95.0           | 136/68         | 02,03    |
|     | 1800 | 575     | 364T  | H60P2G         | \$7,228  | DS-3HD          | 1.15 | 32.6              | 865            | 95.0           | 55             | 02       |
|     | 1800 | 575     | 364TS | H60P2GS        | \$7,228  | DS-3HD          | 1.15 | 30.4              | 865            | 95.0           | 55             | 02       |
|     | 1200 | 230/460 | 404T  | H60P3E         | \$10,356 | DS-3HD          | 1.15 | 37.6              | 1160           | 94.5           | 139/70         |          |
| 75  | 3600 | 200     | 365TS | H75P1HS        | \$9,928  | DS-3HD          | 1.15 | 30.4              | 875            | 93.6           | 194            | 02,14    |
|     | 3600 | 230/460 | 365TS | H75P1ES        | \$9,928  | DS-3HD          | 1.15 | 30.4              | 875            | 93.6           | 167/84         | 02,03,14 |
|     | 3600 | 575     | 365TS | H75P1GS        | \$9,928  | DS-3HD          | 1.15 | 30.4              | 875            | 93.6           | 67             | 02,14    |
|     | 1800 | 200     | 365T  | H75P2H         | \$9,193  | DS-3HD          | 1.15 | 32.6              | 890            | 95.4           | 196            | 02,14    |
|     | 1800 | 200     | 365TS | H75P2HS        | \$9,193  | DS-3HD          | 1.15 | 30.4              | 890            | 95.4           | 196            | 02,14    |
|     | 1800 | 230/460 | 365T  | H75P2E         | \$9,193  | DS-3HD          | 1.15 | 32.6              | 890            | 95.4           | 169/85         | 02,03    |
|     | 1800 | 230/460 | 365T  | H75P2EB        | \$9,193  | DS-3HD          | 1.15 | 32.6              | 890            | 95.4           | 169/85         | 02,03,09 |
|     | 1800 | 230/460 | 365TS | H75P2ES        | \$9,193  | DS-3HD          | 1.15 | 30.4              | 890            | 95.4           | 169/85         | 02,03    |
|     | 1800 | 575     | 365T  | H75P2G         | \$9,193  | DS-3HD          | 1.15 | 32.6              | 890            | 95.0           | 68             | 02       |
|     | 1800 | 575     | 365T  | H75P2GB        | \$9,193  | DS-3HD          | 1.15 | 32.6              | 890            | 95.0           | 68             | 02,09    |
|     | 1800 | 575     | 365TS | H75P2GS        | \$9,193  | DS-3HD          | 1.15 | 30.4              | 890            | 95.0           | 68             | 02       |
|     | 1200 | 230/460 | 405T  | H75P3E         | \$12,210 | DS-3HD          | 1.15 | 37.6              | 1175           | 94.5           | 174/87         | 02,03    |
|     | 1200 | 230/460 | 405T  | H75P3EB        | \$12,210 | DS-3HD          | 1.15 | 37.6              | 1175           | 94.5           | 174/87         | 02,03,09 |
| 100 | 3600 | 230/460 | 405TS | H100P1ES       | \$13,296 | DS-3HD          | 1.15 | 34.6              | 1175           | 94.5           | 224/112        | 02,03    |
|     | 3600 | 575     | 405TS | H100P1GS       | \$13,296 | DS-3HD          | 1.15 | 34.6              | 1175           | 94.5           | 90             |          |
|     | 1800 | 200     | 405T  | H100P2H        | \$11,329 | DS-3HD          | 1.15 | 37.6              | 1200           | 95.4           | 260            |          |
|     | 1800 | 200     | 405TS | H100P2HS       | \$11,329 | DS-3HD          | 1.15 | 34.6              | 1200           | 95.4           | 260            |          |
|     | 1800 | 230/460 | 405T  | H100P2E        | \$11,329 | DS-3HD          | 1.15 | 37.6              | 1200           | 95.4           | 225/113        |          |
|     | 1800 | 230/460 | 405T  | H100P2EB       | \$11,329 | DS-3HD          | 1.15 | 37.6              | 1200           | 95.4           | 225/113        | 09       |
|     | 1800 | 230/460 | 405TS | H100P2ES       | \$11,329 | DS-3HD          | 1.15 | 34.6              | 1200           | 95.4           | 225/113        |          |
|     | 1800 | 575     | 405T  | H100P2G        | \$11,329 | DS-3HD          | 1.15 | 37.6              | 1200           | 95.0           | 90             | 02       |
|     | 1800 | 575     | 405T  | H100P2GB       | \$11,329 | DS-3HD          | 1.15 | 37.6              | 1200           | 95.0           | 90             | 02,09    |
|     | 1800 | 575     | 405TS | H100P2GS       | \$11,329 | DS-3HD          | 1.15 | 34.6              | 1200           | 95.0           | 90             |          |
|     | 1200 | 575     | 444T  | H100P3G        | \$16,718 | DS-3HD          | 1.15 | 45.8              | 1600           | 95.0           | 99             | 02       |
|     | 1200 | 230/460 | 444T  | H100P3E        | \$16,718 | DS-3HD          | 1.15 | 45.8              | 1600           | 95.0           | 248/124        | 02,03    |
|     | 1200 | 230/460 | 444T  | H100P3EB       | \$16,718 | DS-3HD          | 1.15 | 45.8              | 1600           | 95.0           | 248/124        | 02,03,09 |
|     | 1200 | 575     | 444T  | H100P3G        | \$16,718 | DS-3HD          | 1.15 | 43.4              | 1618           | 95.4           | 99             | LA       |
|     | 1200 | 575     | 444T  | H100P3GB       | \$16,718 | DS-3HD          | 1.15 | 45.8              | 1600           | 95.0           | 99             | 02,09    |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 09 Roller Bearing

Note 14 NEMA®† Design A

Note LA Limited Availability

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GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA® Premium Efficient – IE3


**NEMA**  
Premium

CTE

(continued)

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 125 | 3600 | 460     | 444TS | H125P1FS       | \$16,545 | DS-3HD          | 1.15 | 41.7              | 1660           | 95.8           | 142            | 02       |
|     | 3600 | 575     | 444TS | H125P1GS       | \$16,545 | DS-3HD          | 1.15 | 41.7              | 1660           | 95.8           | 114            | 02,03    |
|     | 1800 | 460     | 444T  | H125P2F        | \$14,102 | DS-3HD          | 1.15 | 45.8              | 1575           | 95.4           | 144            | 02,03    |
|     | 1800 | 460     | 444T  | H125P2FB       | \$14,102 | DS-3HD          | 1.15 | 45.8              | 1575           | 95.4           | 144            | 02,03,09 |
|     | 1800 | 460     | 444TS | H125P2FS       | \$14,102 | DS-3HD          | 1.15 | 42.0              | 1575           | 95.4           | 144            | 02       |
|     | 1800 | 575     | 444T  | H125P2G        | \$14,102 | DS-3HD          | 1.15 | 45.8              | 1575           | 95.4           | 116            | 02       |
|     | 1800 | 575     | 444TS | H125P2GS       | \$14,102 | DS-3HD          | 1.15 | 42.0              | 1575           | 95.4           | 116            | 02       |
|     | 1200 | 460     | 445T  | H125P3F        | \$19,123 | DS-3HD          | 1.15 | 45.8              | 1700           | 95.4           | 151            | 02,03    |
|     | 1200 | 460     | 445T  | H125P3FB       | \$19,123 | DS-3HD          | 1.15 | 45.8              | 1650           | 95.4           | 151            | 02,09    |
|     | 1200 | 575     | 445T  | H125P3G        | \$19,123 | DS-3HD          | 1.15 | 45.8              | 1650           | 95.4           | 123            | 02       |
|     | 1200 | 575     | 445T  | H125P3GB       | \$19,123 | DS-3HD          | 1.15 | 45.8              | 1650           | 95.4           | 123            | 02,09    |
| 150 | 3600 | 460     | 445TS | H150P1FS       | \$20,361 | DS-3HD          | 1.15 | 41.7              | 1700           | 95.8           | 171            | 02       |
|     | 3600 | 575     | 445TS | H150P1GS       | \$20,361 | DS-3HD          | 1.15 | 41.7              | 1700           | 95.4           | 137            | 02,03    |
|     | 1800 | 460     | 445T  | H150P2F        | \$16,738 | DS-3HD          | 1.15 | 45.8              | 1650           | 95.8           | 171            | 02,03    |
|     | 1800 | 460     | 445T  | H150P2FB       | \$16,738 | DS-3HD          | 1.15 | 45.8              | 1650           | 95.8           | 171            | 02,03,09 |
|     | 1800 | 460     | 445TS | H150P2FS       | \$16,738 | DS-3HD          | 1.15 | 42.0              | 1650           | 95.8           | 171            | 02       |
|     | 1800 | 575     | 445T  | H150P2G        | \$16,738 | DS-3HD          | 1.15 | 45.8              | 1650           | 95.8           | 137            | 02       |
|     | 1800 | 575     | 445TS | H150P2GS       | \$16,738 | DS-3HD          | 1.15 | 42.0              | 1650           | 95.8           | 137            | 02       |
|     | 1200 | 460     | 447T  | H150P3F        | \$21,964 | DS-3HD          | 1.15 | 49.3              | 2025           | 95.8           | 181            | 02,03    |
|     | 1200 | 460     | 447T  | H150P3FB       | \$21,964 | DS-3HD          | 1.15 | 49.3              | 2000           | 95.8           | 181            | 02,03,09 |
|     | 1200 | 575     | 447T  | H150P3G        | \$21,964 | DS-3HD          | 1.15 | 49.3              | 2000           | 95.8           | 145            | 02       |
|     | 1200 | 575     | 447T  | H150P3GB       | \$21,964 | DS-3HD          | 1.15 | 49.3              | 2000           | 95.8           | 145            | 02,09    |
| 200 | 3600 | 460     | 447TS | H200P1FS       | \$25,731 | DS-3HD          | 1.15 | 45.2              | 2025           | 96.2           | 217            | 02       |
|     | 3600 | 575     | 447TS | H200P1GS       | \$25,731 | DS-3HD          | 1.15 | 45.2              | 2025           | 95.8           | 173            | 02,03    |
|     | 1800 | 460     | 447T  | H200P2F        | \$20,393 | DS-3HD          | 1.15 | 49.3              | 2150           | 96.2           | 224            | 02,03    |
|     | 1800 | 460     | 447T  | H200P2FB       | \$20,393 | DS-3HD          | 1.15 | 49.3              | 2150           | 96.2           | 224            | 02,03,09 |
|     | 1800 | 460     | 447TS | H200P2FS       | \$20,393 | DS-3HD          | 1.15 | 45.5              | 2150           | 96.2           | 224            | 02       |
|     | 1800 | 575     | 447T  | H200P2G        | \$20,393 | DS-3HD          | 1.15 | 49.3              | 2150           | 95.8           | 181            | 02       |
|     | 1800 | 575     | 447TS | H200P2GS       | \$20,393 | DS-3HD          | 1.15 | 45.5              | 2150           | 95.8           | 181            | 02       |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 09 Roller Bearing

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty NEMA<sup>®</sup> Premium Efficient – IE3, C-Face



## APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries requiring protection within harsh operating conditions.

## FEATURES:

- WORLD MOTOR<sup>®</sup> Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Stainless Steel Nameplate (with CE Mark) & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance On 60 Hz Sine Wave Power
- Regreasable Ball Bearings 250 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360, Open On 400-440
- 1.15 Service Factor @ 60 Hz
- Steel Fan Cover & Conduit Box
- Field Convertible To F2 Mounting 180 Frame & Larger
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits (except 320-360)

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|--------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 208-230/460 | 143TC  | H1P2DC         | \$592    | DS-3HD          | 1.15 | 12.8              | 65             | 85.5           | 3.1-3/1.5      | 03    |
|       | 1200 | 208-230/460 | 145TC  | H1P3DC         | \$770    | DS-3HD          | 1.15 | 12.8              | 65             | 82.5           | 3.6-3.5/1.8    | 03    |
| 1 1/2 | 3600 | 208-230/460 | 143TC  | H32P1DC        | \$667    | DS-3HD          | 1.15 | 12.8              | 65             | 84.0           | 4.2-3.9/2      | 03    |
|       | 1800 | 208-230/460 | 145TC  | H32P2DC        | \$646    | DS-3HD          | 1.15 | 12.8              | 70             | 86.5           | 4.5-4.3/2.1    | 03    |
|       | 1200 | 208-230/460 | 182TC  | H32P3DC        | \$845    | DS-3HD          | 1.15 | 16.8              | 100            | 87.5           | 4.8-4.7/2.3    | 03    |
| 2     | 3600 | 208-230/460 | 145TC  | H2P1DC         | \$775    | DS-3HD          | 1.15 | 12.8              | 70             | 86.5           | 5.4-4.9/2.4    | 03    |
|       | 1800 | 208-230/460 | 145TC  | H2P2DC         | \$698    | DS-3HD          | 1.15 | 12.8              | 70             | 86.5           | 5.9-5.7/2.9    | 03    |
|       | 1200 | 208-230/460 | 184TC  | H2P3DC         | \$930    | DS-3HD          | 1.15 | 16.8              | 110            | 88.5           | 6.4-6.2/3.1    | 03    |
| 3     | 3600 | 208-230/460 | 182TC  | H3P1DC         | \$860    | DS-3HD          | 1.25 | 16.8              | 100            | 87.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 208-230/460 | 182TC  | H3P2DC         | \$772    | DS-3HD          | 1.15 | 16.8              | 100            | 89.5           | 8.4-7.8/3.9    | 03    |
|       | 1200 | 208-230/460 | 213TC  | H3P3DC         | \$1,150  | DS-3HD          | 1.15 | 19.1              | 160            | 89.5           | 9.3-8.8/4.4    | 03    |
| 5     | 3600 | 208-230/460 | 184TC  | H5P1DC         | \$1,056  | DS-3HD          | 1.25 | 16.8              | 110            | 88.5           | 13.4-12.2/6.1  | 03    |
|       | 1800 | 208-230/460 | 184TC  | H5P2DC         | \$882    | DS-3HD          | 1.25 | 16.8              | 110            | 87.5           | 13.9-12.9/13.9 | 03    |
|       | 1200 | 208-230/460 | 215TC  | H5P3DC         | \$1,597  | DS-3HD          | 1.15 | 20.6              | 175            | 90.2           | 15-14/7        | 03    |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | H7P1DC         | \$1,306  | DS-3HD          | 1.15 | 19.1              | 160            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 1800 | 208-230/460 | 213TC  | H7P2DC         | \$1,192  | DS-3HD          | 1.15 | 19.1              | 160            | 91.7           | 20.1-18.6/9.3  | 03    |
|       | 1200 | 208-230/460 | 254TC  | H7P3DC         | \$2,147  | DS-3HD          | 1.15 | 23.1              | 300            | 91.7           | 20.6-18.8/9.4  | 02,03 |
| 10    | 3600 | 208-230/460 | 215TC  | H10P1DC        | \$1,511  | DS-3HD          | 1.15 | 20.6              | 175            | 91.7           | 26.4-23.5/11.8 | 03    |
|       | 1800 | 208-230/460 | 215TC  | H10P2DC        | \$1,416  | DS-3HD          | 1.15 | 20.6              | 175            | 91.7           | 26.5-23.9/12   | 03    |
|       | 1200 | 208-230/460 | 256TC  | H10P3DC        | \$2,558  | DS-3HD          | 1.15 | 24.9              | 340            | 91.7           | 27.1-24.6/12.3 | 02,03 |
| 15    | 3600 | 208-230/460 | 254TC  | H15P1DC        | \$2,174  | DS-3HD          | 1.15 | 23.1              | 300            | 91.0           | 39-35/17.4     | 02,03 |
|       | 1800 | 208-230/460 | 254TC  | H15P2DC        | \$1,973  | DS-3HD          | 1.15 | 23.1              | 300            | 92.4           | 40-36/18.2     | 02,03 |
|       | 1200 | 208-230/460 | 284TC  | H15P3DC        | \$3,563  | DS-3HD          | 1.15 | 27.0              | 380            | 91.7           | 41-37/18.4     | 02,03 |
| 20    | 3600 | 208-230/460 | 256TC  | H20P1DC        | \$2,650  | DS-3HD          | 1.15 | 24.9              | 340            | 91.0           | 53-46/23.1     | 02,03 |
|       | 1800 | 208-230/460 | 256TC  | H20P2DC        | \$2,391  | DS-3HD          | 1.15 | 26.1              | 340            | 93.0           | 53-47/23.5     | 02,03 |
|       | 1200 | 208-230/460 | 286TC  | H20P3DC        | \$4,266  | DS-3HD          | 1.25 | 27.0              | 410            | 91.7           | 54-49/24.5     | 02,03 |
| 25    | 3600 | 208-230/460 | 284TSC | H25P1DSC       | \$3,268  | DS-3HD          | 1.15 | 25.6              | 380            | 91.7           | 66-57/28.7     | 02,03 |
|       | 1800 | 208-230/460 | 284TC  | H25P2DC        | \$2,890  | DS-3HD          | 1.15 | 27.0              | 380            | 93.6           | 64-58/28.9     | 02,03 |
| 30    | 3600 | 208-230/460 | 286TSC | H30P1DSC       | \$3,791  | DS-3HD          | 1.15 | 25.6              | 410            | 91.7           | 79-69/34       | 02,03 |
|       | 1800 | 208-230/460 | 286TC  | H30P2DC        | \$3,333  | DS-3HD          | 1.15 | 27.0              | 410            | 93.6           | 77-69/34       | 02,03 |
| 40    | 1800 | 230/460     | 324TC  | H40P2EC        | \$4,584  | DS-3HD          | 1.15 | 30.6              | 600            | 94.1           | 90/45          | 02,03 |
| 50    | 1800 | 230/460     | 326TC  | H50P2EC        | \$5,506  | DS-3HD          | 1.15 | 30.6              | 625            | 94.5           | 112/56         | 02,03 |
| 60    | 1800 | 230/460     | 364TC  | H60P2EC        | \$7,811  | DS-3HD          | 1.15 | 32.6              | 740            | 95.0           | 136/68         | 02,03 |
| 75    | 1800 | 230/460     | 365TC  | H75P2EC        | \$9,776  | DS-3HD          | 1.15 | 32.6              | 910            | 95.4           | 169/85         | 02,03 |
| 100   | 1800 | 230/460     | 405TC  | H100P2EC       | \$12,009 | DS-3HD          | 1.15 | 39.9              | 1180           | 95.4           | 225/113        | 02,03 |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient

**NEMA**  
Premium


## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame & Fan Cover On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Precision Balance (< 0.08 In/Sec Vibration)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360, Open On 400-440
- Oversized Conduit Box - 1 Size Larger Than NEMA®† Standard
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Field Convertible To F2 Mounting 180 Frame & Larger
- Condensation Drains With Threaded Brass Breather Plugs

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 1     | 1800 | 230/460 | 143T  | C1P2B          | \$563   | DS-3CE          | 1.15 | 12.6              | 57            | 85.5           | 3/1.5          |       |
|       | 1800 | 575     | 143T  | C1P2G          | \$563   | DS-3CE          | 1.15 | 12.6              | 57            | 85.5           | 1.1            |       |
|       | 1200 | 230/460 | 145T  | C1P3B          | \$765   | DS-3CE          | 1.15 | 13.9              | 77            | 82.5           | 3.5/1.8        |       |
|       | 1200 | 575     | 145T  | C1P3G          | \$765   | DS-3CE          | 1.15 | 13.9              | 77            | 82.5           | 1.4            |       |
|       | 900  | 230/460 | 182T  | C1P4B          | \$1,185 | DS-3CE          | 1.15 | 16.1              | 75            | 74.0           | 4.5/2.2        |       |
| 1 1/2 | 3600 | 230/460 | 143T  | C32P1B         | \$649   | DS-3CE          | 1.15 | 12.6              | 57            | 84.0           | 3.9/1.9        |       |
|       | 1800 | 230/460 | 145T  | C32P2B         | \$624   | DS-3CE          | 1.15 | 13.9              | 72            | 86.5           | 4.3/2.1        |       |
|       | 1800 | 575     | 145T  | C32P2G         | \$624   | DS-3CE          | 1.15 | 13.9              | 72            | 86.5           | 1.7            |       |
|       | 1200 | 230/460 | 182T  | C32P3B         | \$849   | DS-3CE          | 1.15 | 16.1              | 100           | 87.5           | 4.7/2.3        |       |
|       | 900  | 230/460 | 184T  | C32P4B         | \$1,315 | DS-3CE          | 1.15 | 16.1              | 100           | 80.0           | 6.2/3.1        |       |
| 2     | 3600 | 230/460 | 145T  | C2P1B          | \$771   | DS-3CE          | 1.15 | 12.6              | 72            | 86.5           | 4.9/2.4        |       |
|       | 1800 | 230/460 | 145T  | C2P2B          | \$684   | DS-3CE          | 1.15 | 13.9              | 70            | 86.5           | 5.6/2.8        |       |
|       | 1800 | 575     | 145T  | C2P2G          | \$684   | DS-3CE          | 1.15 | 13.9              | 72            | 86.5           | 2.2            |       |
|       | 1200 | 230/460 | 184T  | C2P3B          | \$945   | DS-3CE          | 1.15 | 16.1              | 125           | 88.5           | 6.2/3.1        |       |
|       | 900  | 230/460 | 184T  | C2P3G          | \$945   | DS-3CE          | 1.15 | 16.1              | 110           | 88.5           | 2.5            |       |
| 3     | 3600 | 230/460 | 213T  | C2P4B          | \$1,464 | DS-3CE          | 1.15 | 20.0              | 117           | 82.5           | 7.4/3.7        |       |
|       | 3600 | 230/460 | 182T  | C3P1B          | \$867   | DS-3CE          | 1.15 | 16.1              | 85            | 87.5           | 7.8/3.9        |       |
|       | 1800 | 230/460 | 182T  | C3P2B          | \$766   | DS-3CE          | 1.15 | 16.1              | 100           | 89.5           | 7.8/3.9        |       |
|       | 1800 | 575     | 182T  | C3P2G          | \$766   | DS-3CE          | 1.15 | 16.1              | 100           | 89.5           | 3.1            |       |
|       | 1200 | 230/460 | 213T  | C3P3B          | \$1,170 | DS-3CE          | 1.15 | 20.0              | 190           | 89.5           | 8.8/4.4        |       |
| 5     | 900  | 230/460 | 215T  | C3P4B          | \$1,815 | DS-3CE          | 1.15 | 20.0              | 160           | 84.0           | 11.3/5.6       |       |
|       | 3600 | 230/460 | 184T  | C5P1B          | \$1,087 | DS-3CE          | 1.15 | 16.2              | 110           | 89.5           | 12.2/6.3       |       |
|       | 1800 | 230/460 | 184T  | C5P2B          | \$890   | DS-3CE          | 1.15 | 16.1              | 120           | 89.5           | 12.5/6.3       |       |
|       | 1800 | 575     | 184T  | C5P2G          | \$890   | DS-3CE          | 1.15 | 16.1              | 120           | 89.5           | 5              |       |
|       | 1200 | 230/460 | 215T  | C5P3B          | \$1,675 | DS-3CE          | 1.15 | 20.0              | 200           | 90.2           | 14/7           |       |
| 7 1/2 | 900  | 230/460 | 254T  | C5P4B          | \$2,529 | DS-3CE          | 1.15 | 25.0              | 300           | 89.5           | 15.2/7.6       |       |
|       | 3600 | 230/460 | 213T  | C7P1B          | \$1,347 | DS-3CE          | 1.15 | 20.0              | 160           | 91.0           | 17.8/8.9       |       |
|       | 1800 | 230/460 | 213T  | C7P2B          | \$1,218 | DS-3CE          | 1.15 | 20.0              | 160           | 91.7           | 18.6/9.3       |       |
|       | 1800 | 575     | 213T  | C7P2G          | \$1,218 | DS-3CE          | 1.15 | 20.0              | 160           | 91.7           | 7.5            |       |
|       | 1200 | 230/460 | 254T  | C7P3B          | \$2,236 | DS-3CE          | 1.15 | 25.0              | 300           | 91.0           | 19/9.5         |       |
| 10    | 1200 | 575     | 254T  | C7P3G          | \$2,236 | DS-3CE          | 1.15 | 25.0              | 300           | 91.7           | 7.9            | 14    |
|       | 3600 | 230/460 | 215T  | C10P1B         | \$1,578 | DS-3CE          | 1.15 | 20.0              | 185           | 91.0           | 23.5/11.8      |       |
|       | 1800 | 230/460 | 215T  | C10P2B         | \$1,471 | DS-3CE          | 1.15 | 20.0              | 200           | 91.7           | 23.9/12        |       |
|       | 1800 | 575     | 215T  | C10P2G         | \$1,471 | DS-3CE          | 1.15 | 20.0              | 200           | 91.7           | 9.6            |       |
|       | 1200 | 230/460 | 256T  | C10P3B         | \$2,700 | DS-3CE          | 1.15 | 25.0              | 340           | 91.7           | 25/12.5        | 14    |

Note 14 NEMA®† Design A

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient

**NEMA**  
Premium



TCE

(continued)

| HP | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|----|------|---------|-------|----------------|----------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 15 | 3600 | 230/460 | 254T  | C15P1B         | \$2,199  | DS-3CE          | 1.15 | 25.0              | 300           | 91.0           | 35/17.7        | 14    |
|    | 1800 | 230/460 | 254T  | C15P2B         | \$1,978  | DS-3CE          | 1.15 | 25.0              | 300           | 92.4           | 37/18.4        |       |
|    | 1800 | 575     | 254T  | C15P2G         | \$1,978  | DS-3CE          | 1.15 | 25.0              | 300           | 92.4           | 14.6           |       |
|    | 1200 | 230/460 | 284T  | C15P3B         | \$3,664  | DS-3CE          | 1.15 | 27.4              | 380           | 91.7           | 37/18.4        |       |
| 20 | 3600 | 230/460 | 256T  | C20P1B         | \$2,723  | DS-3CE          | 1.15 | 25.0              | 432           | 91.7           | 46/23          | 14    |
|    | 1800 | 230/460 | 256T  | C20P2B         | \$2,438  | DS-3CE          | 1.15 | 25.0              | 340           | 93.0           | 47/23.5        |       |
|    | 1800 | 575     | 256T  | C20P2G         | \$2,438  | DS-3CE          | 1.15 | 25.0              | 340           | 93.0           | 19             |       |
|    | 1200 | 230/460 | 286T  | C20P3B         | \$4,439  | DS-3CE          | 1.15 | 27.4              | 410           | 91.0           | 49/24.7        |       |
| 25 | 3600 | 460     | 284TS | C25P1CS        | \$3,248  | DS-3CE          | 1.15 | 26.2              | 320           | 92.4           | 29.8           | 14    |
|    | 1800 | 460     | 284T  | C25P2C         | \$2,845  | DS-3CE          | 1.15 | 27.4              | 400           | 93.6           | 29.6           |       |
|    | 1800 | 575     | 284T  | C25P2G         | \$2,845  | DS-3CE          | 1.15 | 27.4              | 380           | 93.6           | 23.5           |       |
|    | 1200 | 460     | 324T  | C25P3C         | \$5,137  | DS-3CE          | 1.15 | 30.8              | 515           | 93.0           | 31             |       |
|    | 1200 | 575     | 324T  | C25P3G         | \$5,137  | DS-3CE          | 1.15 | 30.8              | 515           | 93.0           | 24.6           |       |
| 30 | 3600 | 460     | 286TS | C30P1CS        | \$3,809  | DS-3CE          | 1.15 | 26.3              | 425           | 91.7           | 34             |       |
|    | 1800 | 460     | 286T  | C30P2C         | \$3,318  | DS-3CE          | 1.15 | 27.6              | 455           | 93.6           | 35             |       |
|    | 1800 | 575     | 286T  | C30P2G         | \$3,318  | DS-3CE          | 1.15 | 27.4              | 455           | 93.6           | 27.6           |       |
|    | 1200 | 460     | 326T  | C30P3C         | \$6,061  | DS-3CE          | 1.15 | 30.8              | 595           | 93.0           | 37             |       |
|    | 1200 | 575     | 326T  | C30P3G         | \$6,061  | DS-3CE          | 1.15 | 30.8              | 595           | 93.0           | 29.6           |       |
| 40 | 3600 | 460     | 324TS | C40P1CS        | \$4,922  | DS-3CE          | 1.15 | 29.3              | 465           | 93.0           | 46             |       |
|    | 1800 | 460     | 324T  | C40P2C         | \$4,332  | DS-3CE          | 1.15 | 30.8              | 600           | 94.1           | 46             |       |
|    | 1800 | 575     | 324T  | C40P2G         | \$4,332  | DS-3CE          | 1.15 | 30.8              | 515           | 94.1           | 37             |       |
|    | 1200 | 460     | 364T  | C40P3C         | \$8,163  | DS-3CE          | 1.15 | 33.0              | 860           | 94.1           | 46             |       |
|    | 1200 | 575     | 364T  | C40P3G         | \$8,163  | DS-3CE          | 1.15 | 33.0              | 860           | 94.1           | 37             |       |
| 50 | 3600 | 460     | 326TS | C50P1CS        | \$6,333  | DS-3CE          | 1.15 | 29.3              | 555           | 93.0           | 56             |       |
|    | 1800 | 460     | 326T  | C50P2C         | \$5,319  | DS-3CE          | 1.15 | 30.8              | 595           | 94.5           | 56             |       |
|    | 1800 | 575     | 326T  | C50P2G         | \$5,319  | DS-3CE          | 1.15 | 30.8              | 595           | 94.5           | 45             |       |
|    | 1200 | 460     | 365T  | C50P3C         | \$9,405  | DS-3CE          | 1.15 | 33.0              | 875           | 94.1           | 58             |       |
|    | 1200 | 575     | 365T  | C50P3G         | \$9,405  | DS-3CE          | 1.15 | 33.0              | 875           | 94.1           | 46             |       |
| 60 | 3600 | 460     | 364TS | C60P1CS        | \$8,454  | DS-3CE          | 1.15 | 30.9              | 855           | 93.6           | 68             | 14    |
|    | 1800 | 460     | 364T  | C60P2C         | \$7,734  | DS-3CE          | 1.15 | 33.0              | 855           | 95.0           | 69             | 14    |
|    | 1800 | 460     | 364TS | C60P2CS        | \$7,734  | DS-3CE          | 1.15 | 30.9              | 750           | 95.0           | 69             | 14    |
|    | 1800 | 575     | 364T  | C60P2G         | \$7,734  | DS-3CE          | 1.15 | 33.0              | 855           | 95.0           | 55             | 14    |
|    | 1200 | 460     | 404T  | C60P3C         | \$11,081 | DS-3CE          | 1.15 | 38.0              | 1160          | 94.5           | 70             |       |
| 75 | 3600 | 460     | 365TS | C75P1CS        | \$10,623 | DS-3CE          | 1.15 | 30.9              | 915           | 93.6           | 84             | 14    |
|    | 3600 | 575     | 365TS | C75P1GS        | \$10,623 | DS-3CE          | 1.15 | 30.9              | 915           | 93.6           | 67             |       |
|    | 1800 | 460     | 365T  | C75P2C         | \$9,837  | DS-3CE          | 1.15 | 33.0              | 800           | 95.4           | 84             |       |
|    | 1800 | 460     | 365TS | C75P2CS        | \$9,837  | DS-3CE          | 1.15 | 30.9              | 925           | 95.4           | 84             |       |
|    | 1800 | 575     | 365T  | C75P2G         | \$9,837  | DS-3CE          | 1.15 | 33.0              | 925           | 95.4           | 68             |       |
|    | 1200 | 460     | 405T  | C75P3C         | \$13,065 | DS-3CE          | 1.15 | 38.0              | 1300          | 94.5           | 87             |       |
|    | 1200 | 460     | 405T  | C75P3CB        | \$14,165 | DS-3CE          | 1.15 | 38.0              | 1300          | 94.5           | 87             | 09    |

Note 09 Roller Bearing  
Note 14 NEMA® Design A

† All marks shown within this document are properties of their respective owners.



GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING-TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient

**NEMA**  
Premium


(continued)

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 100 | 3600 | 460     | 405TS | C100P1CS       | \$14,227 | DS-3CE          | 1.15 | 35.0              | 1250          | 94.5           | 112            |       |
|     | 1800 | 460     | 405T  | C100P2C        | \$12,122 | DS-3CE          | 1.15 | 38.0              | 1250          | 95.4           | 113            |       |
|     | 1800 | 460     | 405T  | C100P2CB       | \$13,222 | DS-3CE          | 1.15 | 38.0              | 1250          | 95.4           | 113            | 09    |
|     | 1800 | 460     | 405TS | C100P2CS       | \$12,122 | DS-3CE          | 1.15 | 35.0              | 1300          | 95.4           | 113            |       |
|     | 1200 | 460     | 444T  | C100P3C        | \$17,888 | DS-3CE          | 1.15 | 45.9              | 1660          | 95.0           | 124            |       |
|     | 1200 | 460     | 444T  | C100P3CB       | \$19,438 | DS-3CE          | 1.15 | 45.8              | 1660          | 95.0           | 124            | 09    |
|     | 1200 | 575     | 444T  | C100P3G        | \$17,888 | DS-3CE          | 1.15 | 45.8              | 1660          | 95.4           | 99             |       |
| 125 | 3600 | 460     | 444TS | C125P1CS       | \$17,372 | DS-3CE          | 1.15 | 42.0              | 1625          | 95.0           | 145.0          | 12    |
|     | 3600 | 460     | 444TS | C125P1FS       | \$17,372 | DS-3CE          | 1.15 | 42.1              | 1660          | 95.8           | 142            |       |
|     | 3600 | 575     | 444TS | C125P1GS       | \$17,372 | DS-3CE          | 1.15 | 42.0              | 1660          | 95.8           | 114            |       |
|     | 1800 | 460     | 444T  | C125P2C        | \$14,807 | DS-3CE          | 1.15 | 45.8              | 1900          | 95.4           | 147            |       |
|     | 1800 | 460     | 444T  | C125P2CB       | \$16,357 | DS-3CE          | 1.15 | 45.8              | 1900          | 95.4           | 147            | 09    |
|     | 1800 | 460     | 444TS | C125P2CS       | \$14,807 | DS-3CE          | 1.15 | 42.0              | 1690          | 95.4           | 147            |       |
|     | 1200 | 460     | 445T  | C125P3C        | \$20,079 | DS-3CE          | 1.15 | 45.9              | 1600          | 95.4           | 151            |       |
|     | 1200 | 460     | 445T  | C125P3CB       | \$21,629 | DS-3CE          | 1.15 | 45.8              | 1600          | 95.4           | 151            | 09    |
| 150 | 3600 | 460     | 445TS | C150P1FS       | \$21,379 | DS-3CE          | 1.15 | 42.0              | 1750          | 95.8           | 171            |       |
|     | 3600 | 575     | 445TS | C150P1GS       | \$21,379 | DS-3CE          | 1.15 | 42.0              | 1750          | 95.4           | 137            |       |
|     | 1800 | 460     | 445T  | C150P2C        | \$17,575 | DS-3CE          | 1.15 | 45.8              | 1800          | 95.8           | 172            |       |
|     | 1800 | 460     | 445T  | C150P2CB       | \$19,125 | DS-3CE          | 1.15 | 45.8              | 1800          | 95.8           | 172            | 09    |
|     | 1800 | 460     | 445TS | C150P2CS       | \$17,575 | DS-3CE          | 1.15 | 42.1              | 1820          | 95.8           | 172            |       |
|     | 1800 | 575     | 445T  | C150P2G        | \$17,575 | DS-3CE          | 1.15 | 45.9              | 1800          | 95.8           | 137            |       |
|     | 1200 | 460     | 447T  | C150P3C        | \$23,062 | DS-3CE          | 1.15 | 49.3              | 2100          | 95.8           | 180            |       |
|     | 1200 | 460     | 447T  | C150P3CB       | \$24,612 | DS-3CE          | 1.15 | 49.3              | 2100          | 95.8           | 180            | 09    |
| 200 | 3600 | 460     | 447TS | C200P1FS       | \$27,018 | DS-3CE          | 1.15 | 45.6              | 2100          | 96.2           | 217            |       |
|     | 3600 | 575     | 447TS | C200P1GS       | \$27,018 | DS-3CE          | 1.15 | 45.6              | 2100          | 95.8           | 173            |       |
|     | 1800 | 460     | 447T  | C200P2C        | \$21,413 | DS-3CE          | 1.15 | 49.3              | 2200          | 96.2           | 224            |       |
|     | 1800 | 460     | 447T  | C200P2CB       | \$22,963 | DS-3CE          | 1.15 | 49.4              | 2200          | 96.2           | 224            | 09    |
|     | 1800 | 460     | 447TS | C200P2CS       | \$21,413 | DS-3CE          | 1.15 | 45.6              | 2200          | 96.2           | 224            |       |
|     | 1800 | 575     | 447T  | C200P2G        | \$21,413 | DS-3CE          | 1.15 | 49.3              | 2200          | 96.2           | 180            |       |
|     | 1200 | 460     | 449T  | C200P3C        | \$28,908 | DS-3CE          | 1.15 | 55.1              | 2400          | 95.8           | 224            |       |
| 250 | 3600 | 460     | 449TS | C250P1CS       | \$30,906 | DS-3CE          | 1.15 | 55.1              | 2700          | 95.8           | 273            | 12    |
|     | 1800 | 460     | 449T  | C250P2C        | \$26,875 | DS-3CE          | 1.15 | 55.1              | 2700          | 96.2           | 273            |       |
|     | 1800 | 460     | 449T  | C250P2CB       | \$28,675 | DS-3CE          | 1.15 | 55.1              | 2700          | 96.2           | 273            | 09    |
|     | 1200 | 460     | 449T  | C250P3C        | \$36,281 | DS-3CE          | 1.15 | 55.1              | 2800          | 95.8           | 280            |       |
| 300 | 3600 | 460     | 449TS | C300P1CS       | \$33,822 | DS-3CE          | 1.15 | 51.4              | 2750          | 95.8           | 327            | 12    |
|     | 1800 | 460     | 449T  | C300P2C        | \$29,410 | DS-3CE          | 1.15 | 55.1              | 2850          | 96.2           | 326            |       |
|     | 1800 | 460     | 449T  | C300P2CB       | \$31,210 | DS-3CE          | 1.15 | 55.1              | 2850          | 96.2           | 326            | 09    |
|     | 1200 | 460     | 449T  | C300P3C        | \$39,704 | DS-3CE          | 1.15 | 55.1              | 2800          | 95.8           | 334            |       |
| 350 | 3600 | 460     | 449TS | C350P1CS       | \$40,405 | DS-3CE          | 1.15 | 51.4              | 2800          | 95.8           | 374            | 12    |
|     | 1800 | 460     | 449T  | C350P2C        | \$35,135 | DS-3CE          | 1.15 | 55.1              | 2950          | 96.2           | 381            |       |
|     | 1800 | 460     | 449T  | C350P2CB       | \$36,935 | DS-3CE          | 1.15 | 55.1              | 2950          | 96.2           | 381            | 09    |
| 400 | 3600 | 460     | 449TS | C400P1CS       | \$50,419 | DS-3CE          | 1.15 | 51.4              | 2900          | 95.8           | 426            | 12    |
|     | 1800 | 460     | 449T  | C400P2C        | \$43,843 | DS-3CE          | 1.15 | 55.1              | 3025          | 96.2           | 434            | 12    |
|     | 1800 | 460     | 449T  | C400P2CB       | \$45,643 | DS-3CE          | 1.15 | 55.1              | 3025          | 96.2           | 434            | 09,12 |

Note 09 Roller Bearing

Note 12 Unidirectional Fan - CCW direction facing opposite drive end (FODE)

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® Premium Efficient C-Face

## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.



TCE

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame & Fan Cover On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Precision Balance (< 0.08 In/Sec Vibration)
- 40°C Ambient, NEMA®1 Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-210
- Oversized Conduit Box - 1 Size Larger Than NEMA®1 Standard
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Field Convertible To F2 Mounting 180 Frame & Larger
- Condensation Drains With Threaded Brass Breather Plugs

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1 1/2 | 3600 | 230/460 | 143TC | C32P1BC        | \$742   | DS-3CE          | 1.15 | 13.5              | 57             | 84.0           | 3.9/1.9        |       |
|       | 1800 | 230/460 | 145TC | C32P2BC        | \$717   | DS-3CE          | 1.15 | 13.5              | 72             | 86.5           | 4.3/2.1        |       |
| 2     | 3600 | 230/460 | 145TC | C2P1BC         | \$864   | DS-3CE          | 1.15 | 13.5              | 72             | 86.5           | 4.9/2.4        |       |
|       | 1800 | 230/460 | 145TC | C2P2BC         | \$777   | DS-3CE          | 1.15 | 13.5              | 70             | 86.5           | 5.6/2.8        |       |
| 3     | 3600 | 230/460 | 182TC | C3P1BC         | \$960   | DS-3CE          | 1.15 | 17.4              | 70             | 88.5           | 7.8/3.9        |       |
|       | 1800 | 230/460 | 182TC | C3P2BC         | \$859   | DS-3CE          | 1.15 | 17.4              | 100            | 89.5           | 7.8/3.9        |       |
| 5     | 3600 | 230/460 | 184TC | C5P1BC         | \$1,180 | DS-3CE          | 1.15 | 17.4              | 110            | 88.5           | 12.2/6.1       |       |
|       | 1800 | 230/460 | 184TC | C5P2BC         | \$983   | DS-3CE          | 1.15 | 17.4              | 120            | 89.5           | 12.5/6.3       |       |
| 7 1/2 | 3600 | 230/460 | 213TC | C7P1BC         | \$1,460 | DS-3CE          | 1.15 | 20.8              | 160            | 91.0           | 17.8/8.9       |       |
|       | 1800 | 230/460 | 213TC | C7P2BC         | \$1,331 | DS-3CE          | 1.15 | 20.8              | 160            | 91.7           | 18.6/9.3       |       |
| 10    | 3600 | 230/460 | 215TC | C10P1BC        | \$1,691 | DS-3CE          | 1.15 | 20.8              | 185            | 91.0           | 23.5/11.8      |       |
|       | 1800 | 230/460 | 215TC | C10P2BC        | \$1,584 | DS-3CE          | 1.15 | 20.8              | 200            | 91.7           | 23.9/12        |       |

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# TITAN® General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® High Efficient

## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries



## FEATURES:

- 1.15 Service Factor
- Division 2 Labeled
- Class B Temperature Rise At Full Load (1.0 S.F.)
- NEMA Design B (Where Applicable)
- CORRO-DUTY® (Includes All Cast Iron Construction)
- Shaft Slinger/Umbrella Seal On Both Ends (IP54)
- Stainless Steel Drains – Both Ends
- Oversized Main Conduit Box
- Ground Lug In Conduit Box
- Grounding Pad On Frame
- Special Balance
- Two Hole Lead Lugs
- 115V Space Heaters
- 100 Ohm Winding RTDs (2/ph.) Terminated In Auxiliary Box
- Vertical Jacking Provisions
- Provisions For Bearing RTDs (1/bearing)
- Insulated Bearing On Opposite Drive End
- Short Commercial Test Report

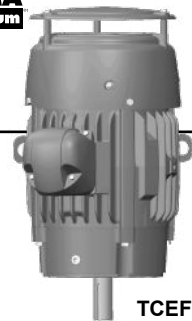
| HP  | RPM  | Voltage   | Frame  | Catalog Number | List     | Discount Symbol | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Typ. Sound Pressure Level @ 1M (dBA) | Div.2 T-Code | Notes |
|-----|------|-----------|--------|----------------|----------|-----------------|-------------------|---------------|----------------|----------------|--------------------------------------|--------------|-------|
| 150 | 3600 | 2300/4000 | 449TS  | C150S1WS       | \$32,804 | DS-6S           | 51.4              | 2400          | 92.4           | 34/19.4        | 89                                   | T3           | 50    |
|     | 1800 | 2300/4000 | 449T   | C150S2W        | \$31,538 | DS-6S           | 55.1              | 2400          | 93.6           | 34/19.7        | 89                                   | T3           |       |
|     | 1200 | 2300/4000 | 449TL  | C150S3WB       | \$32,957 | DS-6S           | 57.1              | 2400          | 93             | 38/22          | 82                                   | T3           | 09    |
| 200 | 3600 | 2300/4000 | 449TS  | C200S1WS       | \$34,531 | DS-6S           | 51.4              | 2400          | 93             | 45/25.7        | 89                                   | T3           | 50    |
|     | 1800 | 2300/4000 | 449T   | C200S2W        | \$33,198 | DS-6S           | 55.1              | 2400          | 93.6           | 45/25.9        | 89                                   | T3           |       |
|     | 1200 | 2300/4000 | 449TL  | C200S3WB       | \$40,100 | DS-6S           | 57.1              | 2400          | 93             | 59/34          | 82                                   | T2D          | 09    |
| 250 | 3600 | 2300/4000 | 449TS  | C250S1WS       | \$39,417 | DS-6S           | 51.4              | 2400          | 93.6           | 55/32          | 89                                   | T2C          | 50    |
|     | 1800 | 2300/4000 | 449T   | C250S2W        | \$38,271 | DS-6S           | 55.1              | 2400          | 94.5           | 58/33          | 89                                   | T2D          |       |
|     | 1200 | 2300/4000 | 5008ML | C250P3WB       | \$48,781 | DS-6S           | 66.5              | 4000          | 95             | 60/34          | 78                                   | T3           | 09    |
| 300 | 3600 | 2300/4000 | 5010S  | C300P1WS       | \$46,793 | DS-6S           | 67.6              | 4800          | 95             | 66/38          | 86                                   | T3           | 50    |
|     | 3600 | 2300      | 449TS  | C30012S        | \$42,114 | DS-6S           | 51.4              | 2400          | 93             | 67             | 93                                   | T2B          |       |
|     | 1800 | 2300/4000 | 5008S  | C300P2W        | \$42,910 | DS-6S           | 60.6              | 4000          | 95             | 70/40          | 85                                   | T3           |       |
|     | 1800 | 2300      | 449T   | C300S22        | \$38,619 | DS-6S           | 55.1              | 2400          | 93.6           | 68             | 93                                   | T2D          |       |
|     | 1200 | 2300/4000 | 5010ML | C300P3WB       | \$50,195 | DS-6S           | 73.5              | 4800          | 95             | 71/41          | 78                                   | T3           | 09    |
| 350 | 3600 | 2300/4000 | 5010S  | C350P1WS       | \$52,834 | DS-6S           | 67.6              | 4800          | 95             | 77/44          | 86                                   | T3           | 50    |
|     | 1800 | 2300/4000 | 5010S  | C350P2W        | \$51,798 | DS-6S           | 67.6              | 4800          | 95             | 81/46          | 85                                   | T3           |       |
|     | 1200 | 2300/4000 | 5010ML | C350P3WB       | \$57,695 | DS-6S           | 73.5              | 4800          | 95             | 83/48          | 78                                   | T3           | 09    |
| 400 | 3600 | 2300/4000 | 5010S  | C400P1WS       | \$56,819 | DS-6S           | 67.6              | 4800          | 95             | 88/51          | 89                                   | T3           | 50    |
|     | 1800 | 2300/4000 | 5010S  | C400P2W        | \$54,576 | DS-6S           | 67.6              | 4800          | 95             | 92/53          | 85                                   | T3           |       |
|     | 1200 | 2300/4000 | 5010ML | C400P3WB       | \$61,660 | DS-6S           | 73.5              | 4800          | 95.4           | 94/54          | 78                                   | T3           | 09    |
| 450 | 3600 | 2300/4000 | 5012S  | C450P1WS       | \$65,481 | DS-6S           | 75.6              | 6000          | 95             | 98/57          | 89                                   | T3           | 50    |
|     | 1800 | 2300/4000 | 5010S  | C450P2W        | \$61,029 | DS-6S           | 67.6              | 4800          | 95.4           | 103/59         | 85                                   | T3           |       |
|     | 1200 | 2300/4000 | 5012ML | C450P3WB       | \$71,310 | DS-6S           | 81.5              | 6000          | 95.4           | 105/60         | 78                                   | T3           | 09    |
| 500 | 3600 | 2300/4000 | 5012S  | C500P1WS       | \$70,131 | DS-6S           | 75.6              | 6000          | 95             | 109/63         | 89                                   | T3           | 50    |
|     | 1800 | 2300/4000 | 5012S  | C500P2W        | \$68,464 | DS-6S           | 75.6              | 6000          | 95.8           | 113/65         | 85                                   | T3           |       |
|     | 1200 | 2300/4000 | 5012ML | C500P3WB       | \$76,529 | DS-6S           | 81.5              | 6000          | 95.8           | 116/67         | 78                                   | T3           | 09    |
| 600 | 3600 | 2300/4000 | 5012S  | C600P1WS       | \$74,190 | DS-6S           | 75.6              | 6000          | 95.4           | 130/75         | 89                                   | T2B          | 50    |
|     | 1800 | 2300/4000 | 5012S  | C600P2W        | \$76,750 | DS-6S           | 75.6              | 6000          | 96.2           | 134/77         | 85                                   | T3           |       |

Note 09 Roller Bearing

Note 50 Counterclockwise (CCW) rotation; Refer to "Kits" Section for Clockwise (CW) Fan Kits

† All marks shown within this document are properties of their respective owners.




**TCEF**

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient – IE3, Vertical C-Face

## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark)
- Shaft Slinger On Both Ends For IP54 Protection
- Regreasable Bearings 140 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 190/380V (140-250 Frame) or 380V (280 Frame & Larger)
- 1.15 Service Factor @ 60 Hz.
- Special Balance (< 0.08 In/Sec Vibration)
- Open Bearings 180-447 (Double Shielded Bearings on 140 Frame)
- Steel Canopy Cap/Drip Cover (Cast Iron on 140 Frame)
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA®† Standard
- Zinc Plated Hardware

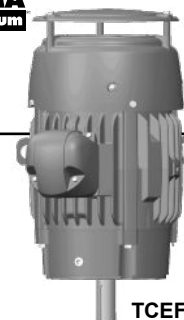
| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 3600 | 208-230/460 | 143TC  | C1P1DCR        | \$818   | DS-3CE          | 1.15 | 15.0              | 65             | 80.0           | 2.9-2.7/1.4    |       |
|       | 1800 | 208-230/460 | 143TC  | C1P2DCR        | \$796   | DS-3CE          | 1.15 | 16.3              | 70             | 84.0           | 3.1-3/1.5      |       |
| 1 1/2 | 3600 | 208-230/460 | 143TC  | C32P1DCR       | \$891   | DS-3CE          | 1.15 | 15.0              | 70             | 82.5           | 4.2-3.9/2      |       |
|       | 1800 | 208-230/460 | 145TC  | C32P2DCR       | \$866   | DS-3CE          | 1.15 | 16.3              | 70             | 86.5           | 4.5-4.3/2.1    |       |
| 2     | 3600 | 208-230/460 | 145TC  | C2P1DCR        | \$1,013 | DS-3CE          | 1.15 | 15.0              | 70             | 86.5           | 5.5-4.9/2.4    |       |
|       | 1800 | 208-230/460 | 145TC  | C2P2DCR        | \$926   | DS-3CE          | 1.15 | 16.3              | 70             | 86.5           | 5.9-5.6/2.8    |       |
| 3     | 3600 | 208-230/460 | 182TC  | C3P1DCR        | \$1,122 | DS-3CE          | 1.15 | 18.6              | 100            | 87.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 208-230/460 | 182TC  | C3P2DCR        | \$1,021 | DS-3CE          | 1.15 | 18.6              | 100            | 89.5           | 8.4-7.8/3.9    |       |
| 5     | 3600 | 208-230/460 | 184TC  | C5P1DCR        | \$1,342 | DS-3CE          | 1.15 | 18.6              | 110            | 88.5           | 13.4-12.2/6.1  |       |
|       | 1800 | 208-230/460 | 184TC  | C5P2DCR        | \$1,145 | DS-3CE          | 1.15 | 18.6              | 110            | 89.5           | 13.7-12.5/6.3  |       |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | C7P1DCR        | \$1,665 | DS-3CE          | 1.15 | 22.8              | 110            | 91.0           | 19.9-17.8/8.9  |       |
|       | 1800 | 208-230/460 | 213TC  | C7P2DCR        | \$1,536 | DS-3CE          | 1.15 | 22.8              | 120            | 91.0           | 20.1-18.6/9.3  |       |
| 10    | 3600 | 208-230/460 | 215TC  | C10P1DCR       | \$1,896 | DS-3CE          | 1.15 | 22.8              | 160            | 91.0           | 26.4-23.5/11.8 |       |
|       | 1800 | 208-230/460 | 215TC  | C10P2DCR       | \$1,789 | DS-3CE          | 1.15 | 22.8              | 160            | 91.7           | 26.5-23.9/12   |       |
| 15    | 3600 | 208-230/460 | 254TC  | C15P1DCR       | \$2,617 | DS-3CE          | 1.15 | 26.3              | 300            | 91.0           | 40-35/17.5     |       |
|       | 1800 | 208-230/460 | 254TC  | C15P2DCR       | \$2,396 | DS-3CE          | 1.15 | 26.3              | 300            | 92.4           | 40-37/18.4     |       |
| 20    | 3600 | 208-230/460 | 256TC  | C20P1DCR       | \$3,141 | DS-3CE          | 1.15 | 26.3              | 340            | 91.0           | 53-46/23.1     |       |
|       | 1800 | 208-230/460 | 256TC  | C20P2DCR       | \$2,856 | DS-3CE          | 1.15 | 26.3              | 340            | 93.0           | 52-47/23.5     |       |
| 25    | 3600 | 460         | 284TSC | C25P1FSCR      | \$3,913 | DS-3CE          | 1.15 | 28.3              | 380            | 91.7           | 29.4           |       |
|       | 1800 | 460         | 284TC  | C25P2FCR       | \$3,510 | DS-3CE          | 1.15 | 29.7              | 380            | 93.6           | 29.1           |       |
|       | 1800 | 460         | 284TSC | C25P2FSCR      | \$3,510 | DS-3CE          | 1.15 | 28.3              | 380            | 93.6           | 29.1           |       |
| 30    | 3600 | 460         | 286TSC | C30P1FSCR      | \$4,474 | DS-3CE          | 1.15 | 28.3              | 410            | 91.7           | 34             |       |
|       | 1800 | 460         | 286TC  | C30P2FCR       | \$3,983 | DS-3CE          | 1.15 | 29.7              | 410            | 93.6           | 34             |       |
|       | 1800 | 460         | 286TSC | C30P2FSCR      | \$3,983 | DS-3CE          | 1.15 | 28.3              | 410            | 93.6           | 34             |       |
| 40    | 3600 | 460         | 324TSC | C40P1FSCR      | \$5,824 | DS-3CE          | 1.15 | 31.1              | 600            | 92.4           | 46             |       |
|       | 1800 | 460         | 324TC  | C40P2FCR       | \$5,234 | DS-3CE          | 1.15 | 32.6              | 600            | 94.1           | 46             |       |
|       | 1800 | 460         | 324TSC | C40P2FSCR      | \$5,234 | DS-3CE          | 1.15 | 31.1              | 600            | 94.1           | 46             |       |
| 50    | 3600 | 460         | 326TSC | C50P1FSCR      | \$7,235 | DS-3CE          | 1.15 | 31.1              | 625            | 93.0           | 56             |       |
|       | 1800 | 460         | 326TC  | C50P2FCR       | \$6,221 | DS-3CE          | 1.15 | 32.6              | 625            | 94.5           | 56             |       |
|       | 1800 | 460         | 326TSC | C50P2FSCR      | \$6,221 | DS-3CE          | 1.15 | 31.1              | 625            | 94.5           | 56             |       |
| 60    | 3600 | 460         | 364TSC | C60P1FSCR      | \$9,632 | DS-3CE          | 1.15 | 31.0              | 750            | 93.6           | 68             |       |
|       | 1800 | 460         | 364TC  | C60P2FCR       | \$8,912 | DS-3CE          | 1.15 | 33.1              | 750            | 95.0           | 69             |       |
|       | 1800 | 460         | 364TSC | C60P2FSCR      | \$8,912 | DS-3CE          | 1.15 | 31.0              | 750            | 95.0           | 69             |       |

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**General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)  
CORRO-DUTY® NEMA®† Premium Efficient – IE3, Vertical C-Face**

(continued)



TCEF

| HP  | RPM  | Voltage | Frame  | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-----|------|---------|--------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 75  | 3600 | 460     | 365TSC | C75P1FSCR      | \$11,801 | DS-3CE          | 1.15 | 31.0              | 900            | 93.6           | 83             |       |
|     | 1800 | 460     | 365TC  | C75P2FCR       | \$11,015 | DS-3CE          | 1.15 | 33.1              | 900            | 95.4           | 84             |       |
|     | 1800 | 460     | 365TSC | C75P2FSCR      | \$11,015 | DS-3CE          | 1.15 | 31.0              | 900            | 95.4           | 84             |       |
| 100 | 3600 | 460     | 405TSC | C100P1FSCR     | \$16,042 | DS-3CE          | 1.15 | 37.6              | 1300           | 94.5           | 112            | 03    |
|     | 1800 | 460     | 405TC  | C100P2FCR      | \$14,022 | DS-3CE          | 1.15 | 40.6              | 1300           | 95.4           | 113            | 03    |
|     | 1800 | 460     | 405TSC | C100P2FSCR     | \$14,022 | DS-3CE          | 1.15 | 37.6              | 1300           | 95.4           | 113            | 03    |
| 125 | 3600 | 460     | 444TSC | C125P1FSCR     | \$19,461 | DS-3CE          | 1.15 | 42.8              | 1660           | 95.8           | 142            |       |
|     | 1800 | 460     | 444TC  | C125P2FCR      | \$16,896 | DS-3CE          | 1.15 | 46.5              | 1660           | 95.4           | 147            |       |
|     | 1800 | 460     | 444TSC | C125P2FSCR     | \$16,896 | DS-3CE          | 1.15 | 42.8              | 1660           | 95.4           | 147            |       |
| 150 | 3600 | 460     | 445TSC | C150P1FSCR     | \$23,468 | DS-3CE          | 1.15 | 42.8              | 1750           | 95.8           | 171            |       |
|     | 1800 | 460     | 445TC  | C150P2FCR      | \$19,664 | DS-3CE          | 1.15 | 46.5              | 1750           | 95.8           | 171            |       |
|     | 1800 | 460     | 445TSC | C150P2FSCR     | \$19,664 | DS-3CE          | 1.15 | 42.8              | 1750           | 95.8           | 171            |       |
| 200 | 3600 | 460     | 447TSC | C200P1FSCR     | \$29,321 | DS-3CE          | 1.15 | 46.3              | 2100           | 96.2           | 217            |       |
|     | 1800 | 460     | 447TC  | C200P2FCR      | \$23,716 | DS-3CE          | 1.15 | 50.0              | 2100           | 96.2           | 224            |       |
|     | 1800 | 460     | 447TSC | C200P2FSCR     | \$23,716 | DS-3CE          | 1.15 | 46.3              | 2100           | 96.2           | 224            |       |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

† All marks shown within this document are properties of their respective owners.





# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 841 PLUS® NEMA® Premium Efficient

**NEMA**  
Premium



## APPLICATIONS:

For constant speed and inverter duty applications in petro-chemical, pulp & paper, automotive, mining and waste treatment industries

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction (Steel Mounting Base On 140 Frame)
- Corrosion Resistant Mill & Chem Duty Paint (250 Hour Salt Spray Test)
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- 40°C Ambient, NEMA® Design B Performance (Sine Wave Power)
- VBXX® Bearing Isolators By Inpro/Seal On Both Ends For IP55 Protection
- Same Size Regreaseable Open Bearings, Brass Breathers/Drains
- CARB® Bearing Available As Conversion On 400 Frame & Up
- 5 Year Warranty (3 Years on Inverter Power)
- External Grounding Provision, Epoxy Coated Rotor
- 10:1 Variable Torque; 5:1 Constant Torque On Inverter Power
- Precision Balance (< 0.05 In/Sec Vibration)
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Conversion Kits: C&D Flange, Drip Cover Kit (except 320-360)
- Meets or exceeds IEEE 841 Standard 2009

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 1     | 1800 | 460     | 143T  | 8P1P2C         | \$788   | DS-841          | 1.15 | 13.1              | 65            | 85.5           | 1.5            |       |
|       | 1800 | 575     | 143T  | 8P1P2G         | \$788   | DS-841          | 1.15 | 13.1              | 65            | 86.5           | 1.1            |       |
|       | 1200 | 460     | 145T  | 8P1P3C         | \$1,071 | DS-841          | 1.15 | 13.1              | 70            | 81.5           | 1.8            |       |
|       | 1200 | 575     | 145T  | 8P1P3G         | \$1,071 | DS-841          | 1.15 | 13.1              | 70            | 82.5           | 1.5            |       |
| 1 1/2 | 3600 | 460     | 143T  | 8P32P1C        | \$878   | DS-841          | 1.15 | 13.1              | 65            | 84.0           | 1.9            | 10    |
|       | 3600 | 575     | 143T  | 8P32P1G        | \$878   | DS-841          | 1.15 | 13.1              | 65            | 84.0           | 1.6            | 10    |
|       | 1800 | 460     | 145T  | 8P32P2C        | \$844   | DS-841          | 1.25 | 13.1              | 70            | 86.5           | 2.1            |       |
|       | 1800 | 575     | 145T  | 8P32P2G        | \$844   | DS-841          | 1.15 | 13.1              | 70            | 86.5           | 1.7            |       |
|       | 1200 | 460     | 182T  | 8P32P3C        | \$1,148 | DS-841          | 1.15 | 16.1              | 96            | 87.5           | 2.3            |       |
|       | 1200 | 575     | 182T  | 8P32P3G        | \$1,148 | DS-841          | 1.15 | 16.1              | 100           | 87.5           | 1.8            |       |
| 2     | 3600 | 460     | 145T  | 8P2P1C         | \$1,026 | DS-841          | 1.15 | 13.5              | 70            | 86.5           | 2.4            |       |
|       | 3600 | 575     | 145T  | 8P2P1G         | \$1,026 | DS-841          | 1.15 | 13.1              | 70            | 86.5           | 2              |       |
|       | 1800 | 460     | 145T  | 8P2P2C         | \$910   | DS-841          | 1.15 | 13.1              | 70            | 86.5           | 2.8            |       |
|       | 1800 | 575     | 145T  | 8P2P2G         | \$910   | DS-841          | 1.15 | 13.1              | 130           | 86.5           | 2.3            |       |
|       | 1200 | 460     | 184T  | 8P2P3C         | \$1,257 | DS-841          | 1.15 | 16.2              | 109           | 88.5           | 3.1            |       |
|       | 1200 | 575     | 184T  | 8P2P3G         | \$1,257 | DS-841          | 1.15 | 16.1              | 109           | 88.5           | 2.5            |       |
| 3     | 3600 | 460     | 182T  | 8P3P1C         | \$1,099 | DS-841          | 1.15 | 16.1              | 96            | 88.5           | 3.9            |       |
|       | 3600 | 575     | 182T  | 8P3P1G         | \$1,099 | DS-841          | 1.15 | 16.1              | 96            | 88.5           | 3.1            |       |
|       | 1800 | 460     | 182T  | 8P3P2C         | \$971   | DS-841          | 1.15 | 16.1              | 96            | 89.5           | 3.9            |       |
|       | 1800 | 575     | 182T  | 8P3P2G         | \$971   | DS-841          | 1.15 | 16.1              | 96            | 89.5           | 3.2            |       |
|       | 1200 | 460     | 213T  | 8P3P3C         | \$1,483 | DS-841          | 1.15 | 20.0              | 164           | 89.5           | 4.4            |       |
|       | 1200 | 575     | 213T  | 8P3P3G         | \$1,483 | DS-841          | 1.15 | 20.0              | 160           | 89.5           | 3.5            |       |
| 5     | 3600 | 460     | 184T  | 8P5P1C         | \$1,367 | DS-841          | 1.15 | 16.2              | 100           | 88.5           | 6.1            |       |
|       | 3600 | 575     | 184T  | 8P5P1G         | \$1,367 | DS-841          | 1.15 | 16.1              | 110           | 88.5           | 4.9            |       |
|       | 1800 | 460     | 184T  | 8P5P2C         | \$1,119 | DS-841          | 1.15 | 16.1              | 110           | 90.2           | 6.3            |       |
|       | 1800 | 575     | 184T  | 8P5P2G         | \$1,119 | DS-841          | 1.15 | 16.1              | 110           | 89.5           | 5              |       |
|       | 1200 | 460     | 215T  | 8P5P3C         | \$2,106 | DS-841          | 1.00 | 20.0              | 160           | 89.5           | 7              |       |
|       | 1200 | 575     | 215T  | 8P5P3G         | \$2,106 | DS-841          | 1.15 | 20.0              | 160           | 90.2           | 5.6            |       |
| 7 1/2 | 3600 | 460     | 213T  | 8P7P1C         | \$1,589 | DS-841          | 1.00 | 20.0              | 200           | 89.5           | 9.3            |       |
|       | 3600 | 575     | 213T  | 8P7P1G         | \$1,589 | DS-841          | 1.15 | 20.0              | 160           | 89.5           | 7.4            |       |
|       | 1800 | 460     | 213T  | 8P7P2C         | \$1,437 | DS-841          | 1.15 | 20.0              | 160           | 91.7           | 9.3            |       |
|       | 1800 | 575     | 213T  | 8P7P2G         | \$1,437 | DS-841          | 1.15 | 20.0              | 160           | 91.7           | 7.5            |       |
|       | 1200 | 460     | 254T  | 8P7P3C         | \$2,638 | DS-841          | 1.15 | 25.0              | 300           | 91.0           | 9.9            |       |
|       | 1200 | 575     | 254T  | 8P7P3G         | \$2,638 | DS-841          | 1.15 | 25.0              | 300           | 91.0           | 7.8            |       |

Note 10 6205/6203 Bearing System

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GENERAL PURPOSE UNIMOUNT  
GENERAL PURPOSE C-FACE  
GENERAL PURPOSE HOSTILE DUTY  
GENERAL PURPOSE CORRO-DUTY  
GENERAL PURPOSE 841 PLUS®  
GENERAL PURPOSE OPEN DRIPPROOF  
GENERAL PURPOSE HAZARDOUS LOCATION  
GENERAL PURPOSE AUTOMOTIVE DUTY  
COOLING TOWER DUTY  
HAZARDOUS LOCATION  
C-FACE MOTORS  
VARIABLE SPEED MOTORS AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 841 PLUS® NEMA®† Premium Efficient

**NEMA**  
Premium


(continued)

| HP | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|----|------|---------|-------|----------------|----------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 10 | 3600 | 460     | 215T  | 8P10P1C        | \$1,849  | DS-841          | 1.15 | 20.0              | 185           | 91.0           | 11.8           |       |
|    | 3600 | 575     | 215T  | 8P10P1G        | \$1,849  | DS-841          | 1.15 | 20.0              | 185           | 91.7           | 9.4            |       |
|    | 1800 | 460     | 215T  | 8P10P2C        | \$1,724  | DS-841          | 1.15 | 20.0              | 205           | 91.7           | 12             |       |
|    | 1800 | 575     | 215T  | 8P10P2G        | \$1,724  | DS-841          | 1.15 | 20.0              | 200           | 91.7           | 9.6            |       |
|    | 1200 | 460     | 256T  | 8P10P3C        | \$3,164  | DS-841          | 1.15 | 25.0              | 340           | 91.0           | 12.5           |       |
|    | 1200 | 575     | 256T  | 8P10P3G        | \$3,164  | DS-841          | 1.15 | 25.0              | 340           | 91.0           | 10.1           |       |
| 15 | 3600 | 460     | 254T  | 8P15P1C        | \$2,565  | DS-841          | 1.15 | 25.0              | 300           | 91.0           | 17.5           |       |
|    | 3600 | 575     | 254T  | 8P15P1G        | \$2,565  | DS-841          | 1.15 | 25.0              | 300           | 91.0           | 14.3           |       |
|    | 1800 | 460     | 254T  | 8P15P2C        | \$2,307  | DS-841          | 1.15 | 25.0              | 300           | 92.4           | 18.3           |       |
|    | 1800 | 575     | 254T  | 8P15P2G        | \$2,307  | DS-841          | 1.15 | 25.0              | 300           | 92.4           | 14.6           |       |
|    | 1200 | 460     | 284T  | 8P15P3C        | \$4,273  | DS-841          | 1.15 | 27.7              | 400           | 91.7           | 18.6           |       |
|    | 1200 | 575     | 284T  | 8P15P3G        | \$4,273  | DS-841          | 1.15 | 27.7              | 400           | 91.7           | 15             |       |
| 20 | 3600 | 460     | 256T  | 8P20P1C        | \$3,286  | DS-841          | 1.15 | 25.0              | 340           | 91.0           | 23.1           |       |
|    | 3600 | 575     | 256T  | 8P20P1G        | \$3,286  | DS-841          | 1.15 | 25.0              | 340           | 91.0           | 18.5           |       |
|    | 1800 | 460     | 256T  | 8P20P2C        | \$2,942  | DS-841          | 1.15 | 25.0              | 340           | 93.0           | 23.5           |       |
|    | 1800 | 575     | 256T  | 8P20P2G        | \$2,942  | DS-841          | 1.15 | 25.0              | 340           | 93.0           | 19             |       |
|    | 1200 | 460     | 286T  | 8P20P3C        | \$5,357  | DS-841          | 1.25 | 27.7              | 420           | 91.7           | 24.4           |       |
|    | 1200 | 575     | 286T  | 8P20P3G        | \$5,357  | DS-841          | 1.15 | 27.7              | 420           | 91.7           | 19.6           |       |
| 25 | 3600 | 460     | 284TS | 8P25P1CS       | \$3,707  | DS-841          | 1.15 | 27.7              | 350           | 91.7           | 29.5           |       |
|    | 3600 | 575     | 284TS | 8P25P1GS       | \$3,707  | DS-841          | 1.15 | 27.7              | 380           | 91.7           | 23.6           |       |
|    | 1800 | 460     | 284T  | 8P25P2C        | \$3,247  | DS-841          | 1.15 | 27.4              | 380           | 93.6           | 29.5           |       |
|    | 1800 | 575     | 284T  | 8P25P2G        | \$3,247  | DS-841          | 1.15 | 27.4              | 380           | 93.6           | 23.6           |       |
|    | 1200 | 460     | 324T  | 8P25P3C        | \$5,863  | DS-841          | 1.15 | 30.8              | 600           | 93.0           | 29.4           |       |
|    | 1200 | 575     | 324T  | 8P25P3G        | \$5,863  | DS-841          | 1.15 | 30.8              | 600           | 93.0           | 23.5           |       |
| 30 | 3600 | 460     | 286TS | 8P30P1CS       | \$4,243  | DS-841          | 1.15 | 26.3              | 400           | 91.7           | 34             |       |
|    | 3600 | 575     | 286TS | 8P30P1GS       | \$4,243  | DS-841          | 1.15 | 26.0              | 400           | 91.7           | 27.6           |       |
|    | 3600 | 575     | 286TS | 8P30P1GS       | \$4,243  | DS-841          | 1.15 | 26.3              | 400           | 91.7           | 27.6           |       |
|    | 1800 | 460     | 286T  | 8P30P2C        | \$3,696  | DS-841          | 1.15 | 27.4              | 440           | 93.6           | 35             |       |
|    | 1800 | 460     | 286T  | 8P30P2C        | \$3,696  | DS-841          | 1.15 | 27.7              | 440           | 93.6           | 35             |       |
|    | 1800 | 575     | 286T  | 8P30P2G        | \$3,696  | DS-841          | 1.15 | 27.4              | 440           | 93.6           | 27.6           |       |
|    | 1200 | 460     | 326T  | 8P30P3C        | \$6,751  | DS-841          | 1.15 | 30.8              | 595           | 93.6           | 35             |       |
|    | 1200 | 575     | 326T  | 8P30P3G        | \$6,751  | DS-841          | 1.15 | 30.8              | 595           | 93.6           | 28.1           |       |
| 40 | 3600 | 460     | 324TS | 8P40P1CS       | \$5,599  | DS-841          | 1.15 | 29.3              | 465           | 92.4           | 46             |       |
|    | 3600 | 575     | 324TS | 8P40P1GS       | \$5,599  | DS-841          | 1.15 | 29.3              | 465           | 92.4           | 36             |       |
|    | 1800 | 460     | 324T  | 8P40P2C        | \$4,928  | DS-841          | 1.15 | 30.8              | 515           | 94.1           | 46             |       |
|    | 1800 | 575     | 324T  | 8P40P2G        | \$4,928  | DS-841          | 1.15 | 30.8              | 515           | 94.1           | 37             |       |
|    | 1200 | 460     | 364T  | 8P40P3C        | \$9,286  | DS-841          | 1.15 | 33.0              | 785           | 94.1           | 46             |       |
|    | 1200 | 575     | 364T  | 8P40P3G        | \$9,286  | DS-841          | 1.15 | 33.0              | 785           | 94.1           | 37             |       |
| 50 | 3600 | 460     | 326TS | 8P50P1CS       | \$7,203  | DS-841          | 1.15 | 29.3              | 555           | 93.0           | 56             |       |
|    | 3600 | 575     | 326TS | 8P50P1GS       | \$7,203  | DS-841          | 1.15 | 29.3              | 625           | 93.0           | 45             |       |
|    | 1800 | 460     | 326T  | 8P50P2C        | \$6,050  | DS-841          | 1.15 | 30.8              | 595           | 94.5           | 56             |       |
|    | 1800 | 575     | 326T  | 8P50P2G        | \$6,050  | DS-841          | 1.15 | 30.8              | 595           | 94.5           | 45             |       |
|    | 1200 | 460     | 365T  | 8P50P3C        | \$10,698 | DS-841          | 1.15 | 33.0              | 895           | 94.1           | 58             |       |
|    | 1200 | 575     | 365T  | 8P50P3G        | \$10,698 | DS-841          | 1.15 | 33.0              | 895           | 94.1           | 46             |       |
| 60 | 3600 | 460     | 364TS | 8P60P1CS       | \$9,416  | DS-841          | 1.15 | 30.9              | 785           | 93.6           | 68             |       |
|    | 3600 | 575     | 364TS | 8P60P1GS       | \$9,416  | DS-841          | 1.15 | 30.9              | 785           | 93.6           | 54             |       |

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 841 PLUS® NEMA®+ Premium Efficient

**NEMA**  
**Premium**



(continued)

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 60  | 1800 | 460     | 364T  | 8P60P2C        | \$8,614  | DS-841          | 1.15 | 33.0              | 785           | 95.0           | 69             |       |
|     | 1800 | 460     | 364TS | 8P60P2CS       | \$8,614  | DS-841          | 1.15 | 30.9              | 785           | 95.0           | 69             |       |
|     | 1800 | 575     | 364T  | 8P60P2G        | \$8,614  | DS-841          | 1.15 | 33.0              | 785           | 95.0           | 55             |       |
|     | 1200 | 460     | 404T  | 8P60P3C        | \$12,342 | DS-841          | 1.15 | 38.0              | 1160          | 94.5           | 70             |       |
|     | 1200 | 575     | 404T  | 8P60P3G        | \$12,342 | DS-841          | 1.15 | 36.5              | 1160          | 94.5           | 56             |       |
| 75  | 3600 | 460     | 365TS | 8P75P1CS       | \$11,597 | DS-841          | 1.15 | 30.9              | 895           | 93.6           | 83             |       |
|     | 3600 | 575     | 365TS | 8P75P1GS       | \$11,597 | DS-841          | 1.15 | 30.9              | 895           | 93.6           | 67             |       |
|     | 1800 | 460     | 365T  | 8P75P2C        | \$10,739 | DS-841          | 1.15 | 33.0              | 895           | 95.4           | 84             |       |
|     | 1800 | 460     | 365T  | 8P75P2CB       | \$11,289 | DS-841          | 1.15 | 33.0              | 895           | 95.4           | 84             | 09    |
|     | 1800 | 460     | 365TS | 8P75P2CS       | \$10,739 | DS-841          | 1.15 | 30.9              | 895           | 95.4           | 84             |       |
|     | 1800 | 575     | 365T  | 8P75P2G        | \$10,739 | DS-841          | 1.00 | 33.0              | 895           | 95.4           | 68             |       |
|     | 1800 | 575     | 365T  | 8P75P2GB       | \$11,289 | DS-841          | 1.15 | 33.0              | 895           | 95.4           | 68             | 09    |
|     | 1200 | 460     | 405T  | 8P75P3C        | \$14,263 | DS-841          | 1.15 | 38.0              | 1300          | 94.5           | 87             |       |
|     | 1200 | 460     | 405T  | 8P75P3CB       | \$14,863 | DS-841          | 1.15 | 38.0              | 1300          | 94.5           | 87             | 09    |
|     | 1200 | 575     | 405T  | 8P75P3G        | \$14,263 | DS-841          | 1.15 | 38.0              | 1300          | 94.5           | 69             |       |
|     | 1200 | 575     | 405T  | 8P75P3GB       | \$14,863 | DS-841          | 1.15 | 38.0              | 1300          | 94.5           | 69             | 09    |
| 100 | 3600 | 460     | 405TS | 8P100P1CS      | \$15,763 | DS-841          | 1.15 | 35.0              | 1300          | 94.5           | 112            |       |
|     | 3600 | 575     | 405TS | 8P100P1GS      | \$15,763 | DS-841          | 1.15 | 35.0              | 1300          | 94.5           | 90             |       |
|     | 1800 | 460     | 405T  | 8P100P2C       | \$13,431 | DS-841          | 1.15 | 38.0              | 1300          | 95.4           | 113            |       |
|     | 1800 | 460     | 405T  | 8P100P2CB      | \$14,031 | DS-841          | 1.15 | 38.0              | 1300          | 95.4           | 113            | 09    |
|     | 1800 | 460     | 405TS | 8P100P2CS      | \$13,431 | DS-841          | 1.15 | 35.0              | 1300          | 95.4           | 113            |       |
|     | 1800 | 575     | 405T  | 8P100P2G       | \$13,431 | DS-841          | 1.15 | 38.0              | 1300          | 95.4           | 90             |       |
|     | 1800 | 575     | 405T  | 8P100P2GB      | \$14,031 | DS-841          | 1.15 | 38.0              | 1300          | 95.4           | 90             | 09    |
|     | 1800 | 575     | 405TS | 8P100P2GS      | \$13,431 | DS-841          | 1.15 | 35.0              | 1300          | 95.4           | 90             |       |
|     | 1200 | 460     | 444T  | 8P100P3C       | \$19,820 | DS-841          | 1.15 | 45.8              | 1660          | 95.0           | 124            | 11    |
|     | 1200 | 460     | 444T  | 8P100P3CB      | \$20,970 | DS-841          | 1.15 | 45.9              | 1660          | 95.0           | 124            | 09    |
|     | 1200 | 575     | 444T  | 8P100P3G       | \$19,820 | DS-841          | 1.15 | 45.9              | 1660          | 95.0           | 99             |       |
|     | 1200 | 575     | 444T  | 8P100P3GB      | \$20,970 | DS-841          | 1.15 | 45.9              | 1660          | 95.0           | 99             | 09    |
| 125 | 3600 | 460     | 444TS | 8P125P1CS      | \$19,697 | DS-841          | 1.15 | 42.0              | 1660          | 95.8           | 142            |       |
|     | 3600 | 575     | 444TS | 8P125P1GS      | \$19,697 | DS-841          | 1.15 | 42.0              | 1660          | 95.8           | 114            |       |
|     | 1800 | 460     | 444T  | 8P125P2C       | \$16,789 | DS-841          | 1.15 | 45.8              | 1675          | 95.4           | 146            | 11    |
|     | 1800 | 460     | 444T  | 8P125P2CB      | \$17,939 | DS-841          | 1.15 | 45.8              | 1675          | 95.4           | 146            | 09    |
|     | 1800 | 460     | 444TS | 8P125P2CS      | \$16,789 | DS-841          | 1.15 | 42.0              | 1675          | 95.4           | 146            |       |
|     | 1800 | 575     | 444T  | 8P125P2G       | \$16,789 | DS-841          | 1.15 | 45.8              | 1675          | 95.4           | 116            | 11    |
|     | 1800 | 575     | 444T  | 8P125P2GB      | \$17,939 | DS-841          | 1.15 | 45.8              | 1675          | 95.4           | 116            | 09    |
|     | 1800 | 575     | 444TS | 8P125P2GS      | \$16,789 | DS-841          | 1.15 | 42.0              | 1675          | 95.4           | 116            |       |
|     | 1200 | 460     | 445T  | 8P125P3C       | \$22,767 | DS-841          | 1.15 | 45.9              | 1750          | 95.8           | 151            |       |
|     | 1200 | 460     | 445T  | 8P125P3CB      | \$23,917 | DS-841          | 1.15 | 45.9              | 1750          | 95.4           | 151            | 09    |
|     | 1200 | 575     | 445T  | 8P125P3G       | \$22,767 | DS-841          | 1.15 | 45.9              | 1750          | 95.4           | 123            |       |
|     | 1200 | 575     | 445T  | 8P125P3GB      | \$23,917 | DS-841          | 1.15 | 45.9              | 1750          | 95.4           | 123            | 09    |
| 150 | 3600 | 460     | 445TS | 8P150P1CS      | \$24,508 | DS-841          | 1.15 | 42.0              | 1750          | 95.8           | 171            |       |
|     | 3600 | 575     | 445TS | 8P150P1GS      | \$24,508 | DS-841          | 1.15 | 42.1              | 1750          | 95.4           | 137            |       |
|     | 1800 | 460     | 445T  | 8P150P2C       | \$20,147 | DS-841          | 1.15 | 45.9              | 1780          | 95.8           | 171            | 11    |

Note 09 Roller Bearing  
Note 11 6318/6313 Bearing System

† All marks shown within this document are properties of their respective owners.



GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 841 PLUS® NEMA®† Premium Efficient

**NEMA**  
Premium


(continued)

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|---------------|----------------|----------------|-------|
| 150 | 1800 | 460     | 445T  | 8P150P2CB      | \$21,297 | DS-841          | 1.15 | 45.9              | 1780          | 95.8           | 171            | 09    |
|     | 1800 | 460     | 445TS | 8P150P2CS      | \$20,147 | DS-841          | 1.15 | 42.1              | 1780          | 95.8           | 171            |       |
|     | 1800 | 575     | 445T  | 8P150P2G       | \$20,147 | DS-841          | 1.15 | 45.9              | 1780          | 95.8           | 137            | 11    |
|     | 1800 | 575     | 445T  | 8P150P2GB      | \$21,297 | DS-841          | 1.15 | 45.9              | 1780          | 95.8           | 137            | 09    |
|     | 1200 | 460     | 447T  | 8P150P3C       | \$26,437 | DS-841          | 1.15 | 49.4              | 2100          | 95.8           | 181            |       |
|     | 1200 | 460     | 447T  | 8P150P3CB      | \$27,787 | DS-841          | 1.15 | 49.4              | 2100          | 95.8           | 181            | 09    |
|     | 1200 | 575     | 447T  | 8P150P3G       | \$26,437 | DS-841          | 1.15 | 49.4              | 2100          | 96.2           | 145            | 11    |
|     | 1200 | 575     | 447T  | 8P150P3GB      | \$27,787 | DS-841          | 1.15 | 49.3              | 2100          | 95.8           | 145            | 09    |
| 200 | 3600 | 460     | 447TS | 8P200P1CS      | \$29,692 | DS-841          | 1.15 | 45.6              | 2100          | 96.2           | 217            |       |
|     | 3600 | 575     | 447TS | 8P200P1GS      | \$29,692 | DS-841          | 1.15 | 45.5              | 2100          | 95.8           | 173            |       |
|     | 1800 | 460     | 447T  | 8P200P2C       | \$23,532 | DS-841          | 1.15 | 49.4              | 2120          | 96.2           | 224            |       |
|     | 1800 | 460     | 447T  | 8P200P2CB      | \$24,882 | DS-841          | 1.15 | 49.4              | 2120          | 96.2           | 224            | 09    |
|     | 1800 | 460     | 447TS | 8P200P2CS      | \$23,532 | DS-841          | 1.15 | 45.6              | 2120          | 96.2           | 224            |       |
|     | 1800 | 575     | 447T  | 8P200P2G       | \$23,532 | DS-841          | 1.15 | 49.4              | 2120          | 96.2           | 180            | 11    |
|     | 1800 | 575     | 447T  | 8P200P2GB      | \$24,882 | DS-841          | 1.15 | 49.3              | 2120          | 96.2           | 180            | 09    |
| 250 | 3600 | 460     | 449TS | 8P250P1CS      | \$35,160 | DS-841          | 1.15 | 51.4              | 2400          | 95.8           | 273            | 12    |
|     | 1800 | 460     | 449T  | 8P250P2C       | \$30,248 | DS-841          | 1.15 | 55.1              | 2700          | 96.2           | 273            |       |
|     | 1800 | 460     | 449T  | 8P250P2CB      | \$31,798 | DS-841          | 1.15 | 55.1              | 2700          | 96.2           | 273            | 09    |
| 300 | 3600 | 460     | 449TS | 8P300P1CS      | \$45,057 | DS-841          | 1.15 | 51.4              | 2700          | 95.8           | 329            | 12    |
|     | 1800 | 460     | 449T  | 8P300P2C       | \$41,403 | DS-841          | 1.15 | 55.1              | 2700          | 96.2           | 326            |       |
|     | 1800 | 460     | 449T  | 8P300P2CB      | \$42,953 | DS-841          | 1.15 | 55.1              | 2850          | 95.8           | 328            | 09    |
| 350 | 3600 | 460     | 449TS | 8P350P1CS      | \$53,107 | DS-841          | 1.15 | 51.4              | 2800          | 95.8           | 374            | 12    |
|     | 1800 | 460     | 449T  | 8P350P2C       | \$49,229 | DS-841          | 1.15 | 55.1              | 2950          | 96.2           | 381            |       |
|     | 1800 | 460     | 449T  | 8P350P2CB      | \$50,779 | DS-841          | 1.15 | 55.1              | 2950          | 96.2           | 381            | 09    |
| 400 | 3600 | 460     | 449TS | 8P400P1CS      | \$59,265 | DS-841          | 1.15 | 51.4              | 2900          | 95.8           | 426            | 12    |
|     | 1800 | 460     | 449T  | 8P400P2C       | \$54,834 | DS-841          | 1.15 | 55.1              | 3025          | 96.2           | 434            | 12    |
|     | 1800 | 460     | 449T  | 8P400P2CB      | \$56,384 | DS-841          | 1.15 | 55.1              | 3025          | 96.2           | 434            | 09,12 |

Note 09 Roller Bearing

Note 11 6318/6313 Bearing System

Note 12 Unidirectional Fan - CCW direction facing opposite drive end (FODE)

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 841 PLUS® NEMA®† Premium Efficient



CEF

## APPLICATIONS:

For constant speed and inverter duty applications in petro-chemical, pulp & paper, automotive, mining and waste treatment industries.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction
- Corrosion Resistant Mill & Chem Duty Paint (250 Hour Salt Spray Test)
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX®† Bearing Isolators By Inpro/Seal For IP55 Protection
- Same Size Regreasable Open Bearings & Internal Bearing Caps (180 Frame & Up)
- CARB® Bearing Available As Conversion On 400 Frame & Up
- 5 Year Warranty (3 Years on Inverter Power)
- External Grounding Provision, Epoxy Coated Rotor
- 10:1 Variable Torque; 5:1 Constant Torque On Inverter Power
- Precision Balance (< 0.05 In/Sec Vibration)
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Meets or Exceeds IEEE 841 Standard 2009

## C-Face Footless

| HP    | RPM  | Voltage | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 460     | 143TC  | 8P1P2CCR       | \$881   | DS-841          | 1.15 | 13.5              | 65             | 85.5           | 1.5            |       |
|       | 1800 | 460     | 143TC  | 8P1P2CCR2      | \$881   | DS-841          | 1.15 | 13.5              | 65             | 85.5           | 1.5            |       |
|       | 1200 | 460     | 145TC  | 8P1P3CCR       | \$1,164 | DS-841          | 1.15 | 13.5              | 73             | 82.5           | 1.8            |       |
| 1 1/2 | 3600 | 460     | 143TC  | 8P32P1CCR      | \$971   | DS-841          | 1.15 | 13.5              | 68             | 84.0           | 1.9            |       |
|       | 1800 | 460     | 145TC  | 8P32P2CCR      | \$937   | DS-841          | 1.15 | 13.5              | 73             | 86.5           | 2.1            |       |
| 2     | 3600 | 460     | 145TC  | 8P2P1CCR       | \$1,119 | DS-841          | 1.15 | 13.5              | 73             | 85.5           | 2.5            |       |
|       | 1800 | 460     | 145TC  | 8P2P2CCR       | \$1,003 | DS-841          | 1.15 | 13.5              | 70             | 86.5           | 2.8            |       |
|       | 1800 | 460     | 145TC  | 8P2P2CCR2      | \$1,003 | DS-841          | 1.15 | 13.5              | 70             | 86.5           | 2.8            |       |
|       | 1200 | 460     | 184TCH | 8P2P3CKR       | \$1,350 | DS-841          | 1.15 | 17.4              | 115            | 87.5           | 3.1            |       |
| 3     | 3600 | 460     | 182TCH | 8P3P1CKR       | \$1,192 | DS-841          | 1.15 | 17.4              | 100            | 88.5           | 3.9            |       |
|       | 1800 | 460     | 182TC  | 8P3P2CCR       | \$1,064 | DS-841          | 1.15 | 17.4              | 115            | 89.5           | 3.9            |       |
|       | 1200 | 460     | 213TC  | 8P3P3CCR       | \$1,576 | DS-841          | 1.15 | 20.8              | 165            | 89.5           | 4.4            |       |
| 5     | 1800 | 460     | 184TC  | 8P5P2CCR       | \$1,212 | DS-841          | 1.00 | 17.4              | 110            | 89.5           | 6.3            |       |
|       | 1800 | 460     | 184TCH | 8P5P2CKR       | \$1,212 | DS-841          | 1.15 | 17.4              | 110            | 90.2           | 6.3            |       |
|       | 1200 | 460     | 215TC  | 8P5P3CCR       | \$2,199 | DS-841          | 1.00 | 20.8              | 220            | 89.5           | 7              |       |
| 7 1/2 | 3600 | 460     | 213TC  | 8P7P1CCR       | \$1,702 | DS-841          | 1.15 | 20.8              | 160            | 89.5           | 9.3            |       |
|       | 1800 | 460     | 213TC  | 8P7P2CCR       | \$1,550 | DS-841          | 1.15 | 20.8              | 160            | 91.0           | 9.2            |       |
| 10    | 3600 | 460     | 215TC  | 8P10P1CCR      | \$1,962 | DS-841          | 1.15 | 20.8              | 185            | 91.0           | 11.8           |       |
|       | 1800 | 460     | 215TC  | 8P10P2CCR      | \$1,837 | DS-841          | 1.15 | 20.8              | 200            | 91.0           | 12             |       |

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 661 PLUS® NEMA®† Premium Efficient – IE3


**NEMA**  
Premium

CE6

## APPLICATIONS:

For constant speed and inverter duty heat exchanger applications in petro-chemical industry.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction
- Corrosion Resistant Mill & Chem Duty Paint (250 Hour Salt Spray Test)
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX®† Bearing Isolators By Inpro/Seal For IP55 Protection
- Regreasable Open Bearings, Stainless Breathers/Drains
- External Grounding Provision, Epoxy Coated Rotor
- 10:1 Variable Torque; 5:1 Constant Torque On Inverter Power
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Internal Bearing Caps, RTV Sealant On Bolt Holes & Register Fits
- Conversion Kits: Drip Cover Kit
- 5 Year Warranty (3 Years on Inverter Power), See Page ix for Information

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 5   | 1800 | 460     | 184T  | 6P5P2C         | \$1,203  | DS-841          | 1.15 | 16.2              | 110            | 90.2           | 6.3            |       |
| 7.5 | 1800 | 460     | 213T  | 6P7P2CB        | \$1,837  | DS-841          | 1.15 | 19.6              | 160            | 91.7           | 9.3            | 09a   |
| 10  | 1800 | 460     | 215T  | 6P10P2CB       | \$2,124  | DS-841          | 1.15 | 19.6              | 200            | 91.7           | 12             | 09a   |
| 15  | 1800 | 460     | 254T  | 6P15P2CB       | \$2,707  | DS-841          | 1.15 | 25.0              | 320            | 93.0           | 18.3           | 09a   |
| 20  | 1800 | 460     | 256T  | 6P20P2CB       | \$3,345  | DS-841          | 1.15 | 25.0              | 360            | 93.0           | 23.8           | 09a   |
| 25  | 1800 | 460     | 284T  | 6P25P2CB       | \$3,688  | DS-841          | 1.15 | 27.0              | 400            | 93.6           | 29.5           | 09a   |
| 30  | 1800 | 460     | 286T  | 6P30P2CB       | \$4,137  | DS-841          | 1.15 | 27.0              | 440            | 93.6           | 35             | 09a   |
| 40  | 1800 | 460     | 324T  | 6P40P2CB       | \$5,441  | DS-841          | 1.15 | 30.8              | 515            | 94.1           | 46             | 09a   |
| 50  | 1800 | 460     | 326T  | 6P50P2CB       | \$6,563  | DS-841          | 1.15 | 30.8              | 595            | 94.5           | 56             | 09a   |
| 60  | 1800 | 460     | 364T  | 6P60P2CB       | \$9,164  | DS-841          | 1.15 | 33.0              | 785            | 95.0           | 69             | 09a   |
| 75  | 1800 | 460     | 365T  | 6P75P2CB       | \$11,289 | DS-841          | 1.15 | 33.0              | 895            | 95.4           | 84             | 09a   |

Note 09a Cylindrical Roller Bearing

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase Open Dripproof (ODP) NEMA®† Premium Efficient – IE3



**NEMA**  
Premium

## APPLICATIONS:

For pumps, fans, compressors, material handling, and other general purpose applications where contaminants are minimal.

DE, RE

## FEATURES:

- WORLD MOTOR® Features Except Where Noted, and on 200V & 575V Motors
- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 56-320, Cast Iron Frame 360-440
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- "CE" Mark On Nameplate (140 Frame & Larger)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- 1.15 Service Factor
- Regreasable Bearings 180 Frame & Up
- Double Shielded Bearings 140-400, Open on 440
- Bearing Caps On 400 & 440 Frames
- F1 Assembly Position except where noted
- Lifting Provisions 180 Frame & Up
- Conversion Kits: Drip Cover Kits (140-320 Frame)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs.) | NEMA Nom. Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|-----------------|----------------|----------------|-----------|
| 1/4   | 1800 | 208-230/460 | 48    | D14P2B4        | \$265 | DS-3E           | 1.35 | 9.6               | 17              | -              | 1.3-1.3/7      | 26        |
|       | 1800 | 208-230/460 | 56H   | D14P2AH        | \$275 | DS-3E           | 1.35 | 10.9              | 26              | 69.5           | 1.1-1.1/0.5    | 26        |
|       | 1200 | 208-230/460 | 56    | D14S3A         | \$345 | DS-3E           | 1.35 | 11.9              | 32              | -              | 1.4-1.4/0.7    | 26,LA,NNP |
| 1/3   | 3600 | 208-230/460 | 56H   | D13P1AH        | \$284 | DS-3E           | 1.35 | 10.9              | 32              | 69.5           | 1.7-1.8/0.9    | 26        |
|       | 1800 | 208-230/460 | 56H   | D13P2AH        | \$282 | DS-3E           | 1.35 | 11.4              | 26              | 73.4           | 1.4-1.4/0.7    | 26        |
| 1/2   | 3600 | 208-230/460 | 48    | D12P1D4        | \$295 | DS-3E           | 1.25 | 9.6               | 20              | -              | 1.8-1.8/0.90   | 26,R      |
|       | 3600 | 208-230/460 | 48    | D12S1D4        | \$256 | DS-3E           | 1.25 | 9.4               | 19              | -              | 1.8-1.8/0.90   | 26,LA,NNP |
|       | 1800 | 208-230/460 | 56H   | D12P2AH        | \$322 | DS-3E           | 1.25 | 11.4              | 24              | 78.2           | 1.99-1.9/0.98  | 26        |
|       | 1800 | 208-230/460 | 56    | D12P2D         | \$322 | DS-3E           | 1.00 | 10.4              | 20              | 78.2           | 2.0-2.0/1.0    | 26        |
|       | 1200 | 208-230/460 | 56H   | D12P3AH        | \$511 | DS-3E           | 1.25 | 12.4              | 38              | 75.3           | 2.4/1.2        | 26        |
|       | 1200 | 208-230/460 | 56    | D12S3A         | \$444 | DS-3E           | 1.25 | 11.9              | 32              | -              | 2.2-2.2/1.1    | 26,LA,NNP |
|       | 1200 | 208-230/460 | 56    | D12S3A         | \$444 | DS-3E           | 1.25 | 11.9              | 32              | -              | 2.2-2.2/1.1    | 26,LA,NNP |
| 3/4   | 3600 | 230/460     | 48    | D34P1B         | \$346 | DS-3E           | 1.25 | 10.1              | 19              | -              | 2.8/1.4        | 26,R      |
|       | 3600 | 230/460     | 48    | D34S1B         | \$301 | DS-3E           | 1.25 | 8.9               | 19              | -              | 2.4/1.2        | 26,LA,NNP |
|       | 1800 | 208-230/460 | 56    | D34P2AH        | \$359 | DS-3E           | 1.25 | 10.0              | 25              | 81.1           | 2.8-3.2/1.6    | 26        |
| 1     | 3600 | 208-230/460 | 56    | D1P1A          | \$400 | DS-3E           | 1.25 | 10.4              | 25              | 77.0           | 2.8-2.8/1.4    | 26        |
|       | 3600 | 208-230/460 | 56    | D1S1A          | \$348 | DS-3E           | 1.25 | 10.4              | 25              | 77.0           | 2.8/1.4        | 26,NNP,LA |
|       | 1800 | 200         | 143T  | D1P2H          | \$443 | DS-3E           | 1.15 | 12.8              | 30              | 85.5           | 3.6            |           |
|       | 1800 | 208-230/460 | 143T  | D1P2D          | \$443 | DS-3E           | 1.15 | 12.8              | 30              | 85.5           | 3.2-3.1/1.6    | 03        |
|       | 1800 | 208-230/460 | 56H   | D1P2AH         | \$405 | DS-3E           | 1.15 | 12.4              | 32              | 83.5           | 3.2-3.0/1.5    | 26        |
|       | 1800 | 208-230/460 | 56HZ  | D1E2DHZ        | \$385 | DS-3E           | 1.15 | 12.0              | 26              | 82.5           | 4.0-3.8/1.9    | 26,NNP,LA |
|       | 1800 | 208-230/460 | 56HZ  | D1P2DHZ        | \$443 | DS-3E           | 1.15 | 13.8              | 26              | 83.5           | 3.3-3.3/1.6    | 26        |
|       | 1800 | 575         | 143T  | D1P2G          | \$443 | DS-3E           | 1.15 | 12.8              | 30              | 85.5           | 1.3            |           |
|       | 1200 | 200         | 145T  | D1P3H          | \$595 | DS-3E           | 1.15 | 14.1              | 35              | 82.5           | 4.5            |           |
|       | 1200 | 208-230/460 | 145T  | D1P3D          | \$595 | DS-3E           | 1.15 | 14.1              | 35              | 82.5           | 4-4/2          | 03        |
|       | 1200 | 575         | 145T  | D1P3G          | \$595 | DS-3E           | 1.15 | 14.1              | 35              | 82.5           | 1.6            |           |
|       | 900  | 208-230/460 | 182T  | D1E4D          | \$648 | DS-3FOP         | 1.15 | 15.0              | 50              | 75.5           | 4.4-4.6/2.3    | 03,NNP,LA |
| 1 1/2 | 3600 | 200         | 143T  | D32P1H         | \$472 | DS-3E           | 1.15 | 12.8              | 30              | 84.0           | 4.3            |           |
|       | 3600 | 208-230/460 | 143T  | D32P1D         | \$472 | DS-3E           | 1.15 | 12.8              | 30              | 85.5           | 4.2-3.8/1.9    | 03        |
|       | 3600 | 575         | 143T  | D32P1G         | \$472 | DS-3E           | 1.15 | 12.8              | 30              | 85.5           | 1.5            |           |
|       | 1800 | 200         | 145T  | D32P2H         | \$466 | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 4.9            |           |
|       | 1800 | 208-230/460 | 145T  | D32P2D         | \$466 | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 4.4-4.2/2.1    | 03        |
|       | 1800 | 208-230/460 | 56H   | D32P2AH        | \$466 | DS-3E           | 1.15 | 12.9              | 33              | -              | 5.4-5.2/2.6    | 26        |
|       | 1800 | 230/460     | 145T  | D32P2B2        | \$466 | DS-3E           | 1.15 | 12.8              | 45              | 86.5           | 4.2/2.1        | 05,26     |
|       | 1800 | 575         | 145T  | D32P2G         | \$466 | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 1.7            |           |
|       | 1200 | 208-230/460 | 182T  | D32P3D         | \$600 | DS-3E           | 1.15 | 13.7              | 45              | 86.5           | 5.2-5.3/2.6    | 03        |
|       | 1200 | 200         | 182T  | D32P3H         | \$600 | DS-3E           | 1.15 | 15.0              | 45              | 86.5           | 6.3            |           |
|       | 1200 | 575         | 182T  | D32P3G         | \$600 | DS-3E           | 1.15 | 15.0              | 45              | 86.5           | 2.1            |           |
|       | 900  | 575         | 184T  | D32E4G         | \$648 | DS-3E           | 1.15 | 15.0              | 60              | 75.5           | 2.4            | NNP,LA    |
| 2     | 3600 | 208-230/460 | 56H   | D2P1AH         | \$462 | DS-3E           | 1.15 | 11.9              | 32              | 85.5           | 6.3-5.8/2.9    | 26        |
|       | 3600 | 200         | 145T  | D2P1H          | \$515 | DS-3E           | 1.15 | 12.8              | 35              | 85.5           | 5.6            |           |
|       | 3600 | 208-230/460 | 145T  | D2P1D          | \$515 | DS-3E           | 1.15 | 12.8              | 35              | 85.5           | 5.5-5/2.5      | 03        |
|       | 3600 | 208-230/460 | 56H   | D2S1AH         | \$401 | DS-3E           | 1.15 | 11.9              | 32              | 82.5           | 6.0-5.4/2.7    | 26,NNP,LA |

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GENERAL PURPOSE UNIMOUNT  
GENERAL PURPOSE C-FACE  
GENERAL PURPOSE HOSTILE DUTY  
GENERAL PURPOSE CORRO-DUTY  
GENERAL PURPOSE 841 PLUS  
GENERAL PURPOSE OPEN DRIPPROOF  
GENERAL PURPOSE HAZARDOUS LOCATION  
GENERAL PURPOSE AUTOMOTIVE DUTY  
COOLING-TOWER DUTY  
HAZARDOUS LOCATION  
C-FACE MOTORS  
VARIABLE SPEED MOTORS AND DRIVES

# General Purpose Three Phase Open Dripproof (ODP) NEMA® Premium Efficient – IE3


**NEMA**  
Premium

DE, RE

(continued)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs.) | NEMA Nom. Eff. | Full Load Amps | Notes        |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|-----------------|----------------|----------------|--------------|
| 2     | 3600 | 575         | 145T  | D2P1G          | \$515   | DS-3E           | 1.15 | 12.8              | 35              | 85.5           | 2              |              |
|       | 1800 | 200         | 145T  | D2P2H          | \$512   | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 6.4            |              |
|       | 1800 | 208-230/460 | 145T  | D2P2D          | \$512   | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 5.9-5.6/2.8    | 03           |
|       | 1800 | 208-230/460 | 56H   | D2P2AH         | \$415   | DS-3E           | 1.15 | 12.9              | 40              | 86.5           | 6.6-6.6/3.3    | 26           |
|       | 1800 | 208-230/460 | 56HZ  | D2E2DHZ        | \$383   | DS-3E           | 1.15 | 12.5              | 26              | 85.5           | 6.6-6.6/3.3    | 26,NNP,LA    |
|       | 1800 | 208-230/460 | 56HZ  | D2P2DHZ        | \$444   | DS-3E           | 1.15 | 14.3              | 26              | 86.5           | 6.2-6.0/3.0    | 26           |
|       | 1800 | 230/460     | 145T  | D2P2B2         | \$512   | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 5.4/2.7        | 05,26        |
|       | 1800 | 575         | 145T  | D2P2G          | \$512   | DS-3E           | 1.15 | 12.8              | 35              | 86.5           | 2.2            |              |
|       | 1200 | 200         | 184T  | D2P3H          | \$672   | DS-3E           | 1.15 | 15.0              | 60              | 87.5           | 7.3            |              |
|       | 1200 | 208-230/460 | 184T  | D2P3D          | \$672   | DS-3E           | 1.15 | 13.7              | 60              | 87.5           | 6.4-6.3/3.1    | 03           |
|       | 1200 | 575         | 184T  | D2P3G          | \$672   | DS-3E           | 1.15 | 15.0              | 60              | 87.5           | 2.5            |              |
|       | 900  | 208-230/460 | 213T  | D2E4D          | \$1,057 | DS-3E           | 1.15 | 16.0              | 94              | 85.5           | 7.9-7.4/3.7    | 03,NNP,LA    |
| 900   | 575  | 213T        | D2E4G | \$1,057        | DS-3E   | 1.15            | 16.0 | 90                | 85.5            | 2.9            | NNP,LA         |              |
| 3     | 3600 | 200         | 145T  | D3P1H          | \$529   | DS-3E           | 1.15 | 12.8              | 35              | 85.5           | 8.4            |              |
|       | 3600 | 208-230/460 | 145T  | D3P1D          | \$529   | DS-3E           | 1.15 | 12.8              | 35              | 85.5           | 8.3-7.4/3.7    | 03           |
|       | 3600 | 575         | 145T  | D3P1G          | \$529   | DS-3E           | 1.15 | 12.8              | 35              | 85.5           | 2.9            |              |
|       | 1800 | 200         | 182T  | D3P2H          | \$544   | DS-3E           | 1.15 | 13.7              | 50              | 89.5           | 8.8            |              |
|       | 1800 | 208-230/460 | 182T  | D3P2D          | \$544   | DS-3E           | 1.15 | 13.7              | 50              | 90.2           | 8.3-7.6/3.8    | 03           |
|       | 1800 | 208-230/460 | 182T  | D3PA2D         | \$794   | DS-3E           | 1.15 | 15.0              | 50              | 89.5           | 8.4-7.9/3.9    | 24           |
|       | 1800 | 208-230/460 | 56HZ  | D3P2AHZ        | \$576   | DS-3E           | 1.15 | 13.5              | 21              | 86.9           | 9.7-9.4/4.6    | 26           |
|       | 1800 | 575         | 182T  | D3P2G          | \$544   | DS-3E           | 1.15 | 13.7              | 50              | 89.5           | 3.1            |              |
|       | 1200 | 200         | 213T  | D3P3H          | \$855   | DS-3E           | 1.15 | 16.0              | 90              | 88.5           | 10.5           |              |
|       | 1200 | 208-230/460 | 213T  | D3P3D          | \$855   | DS-3E           | 1.15 | 16.0              | 94              | 89.5           | 9.4-8.8/4.4    |              |
|       | 1200 | 575         | 213T  | D3P3G          | \$855   | DS-3E           | 1.15 | 16.0              | 90              | 88.5           | 3.6            |              |
|       | 900  | 208-230/460 | 215T  | D3E4D          | \$1,355 | DS-3E           | 1.15 | 17.5              | 104             | 86.5           | 11.6-10.8/5.4  | 03,NNP,LA    |
| 900   | 575  | 215T        | D3E4G | \$1,355        | DS-3E   | 1.15            | 17.5 | 100               | 86.5            | 4.4            | NNP,LA         |              |
| 5     | 3600 | 208-230/460 | 182T  | D5P1D          | \$564   | DS-3E           | 1.15 | 13.7              | 50              | 88.5           | 13.5-12.3/6.2  | 03           |
|       | 3600 | 200         | 182T  | D5P1H          | \$564   | DS-3E           | 1.15 | 13.7              | 50              | 88.5           | 14.1           |              |
|       | 3600 | 208-230/460 | 182T  | D5P1D          | \$564   | DS-3E           | 1.15 | 15.0              | 50              | 89.5           | 13.5-12.3/6.2  | 03           |
|       | 3600 | 575         | 182T  | D5P1G          | \$564   | DS-3E           | 1.15 | 13.7              | 50              | 87.5           | 5              |              |
|       | 1800 | 200         | 184T  | D5P2H          | \$586   | DS-3E           | 1.15 | 13.7              | 70              | 89.5           | 14.2           |              |
|       | 1800 | 208-230/460 | 184T  | D5P2D          | \$586   | DS-3E           | 1.15 | 13.7              | 70              | 89.5           | 13.7-12.4/6.2  | 03           |
|       | 1800 | 208-230/460 | 184T  | D5PA2A         | \$836   | DS-3E           | 1.15 | 15.0              | 68              | 89.5           | 13.8-12.6/6.3  | 24,26        |
|       | 1800 | 575         | 184T  | D5P2G          | \$586   | DS-3E           | 1.15 | 13.7              | 70              | 89.5           | 4.9            |              |
|       | 1200 | 200         | 215T  | D5P3H          | \$1,122 | DS-3E           | 1.15 | 17.5              | 100             | 89.5           | 16.1           |              |
|       | 1200 | 208-230/460 | 215T  | D5P3D          | \$1,122 | DS-3E           | 1.15 | 17.5              | 104             | 89.5           | 15.2-14.5/7.3  |              |
|       | 1200 | 575         | 215T  | D5P3G          | \$1,122 | DS-3E           | 1.15 | 17.5              | 100             | 89.5           | 5.7            |              |
|       | 900  | 208-230/460 | 254T  | D5E4D          | \$1,737 | DS-3E           | 1.15 | 22.6              | 162             | 88.5           | 16.2-15.2/7.6  | 02,03,NNP,LA |
|       | 900  | 208-230/460 | 254T  | D5P4D          | \$1,737 | DS-3E           | 1.15 | 22.6              | 162             | 88.5           | 16.2-15.2/7.6  | 02,03,NNP,LA |
|       | 900  | 575         | 254T  | D5E4G          | \$1,737 | DS-3E           | 1.15 | 22.6              | 150             | 87.5           | 6.2            | 02,NNP,LA    |
|       | 900  | 575         | 254T  | D5P4G          | \$1,737 | DS-3E           | 1.15 | 22.6              | 150             | 87.5           | 6.2            | 02,NNP,LA    |
| 7 1/2 | 3600 | 200         | 184T  | D7P1H          | \$880   | DS-3E           | 1.15 | 13.7              | 60              | 88.5           | 20.8           |              |
|       | 3600 | 208-230/460 | 184T  | D7P1D          | \$880   | DS-3E           | 1.15 | 13.7              | 60              | 88.5           | 20.3-18.1/9.1  | 03           |
|       | 3600 | 575         | 184T  | D7P1G          | \$880   | DS-3E           | 1.15 | 13.7              | 60              | 88.5           | 7.3            |              |
|       | 1800 | 200         | 213T  | D7P2H          | \$857   | DS-3E           | 1.15 | 16.0              | 94              | 91.0           | 21.4           |              |
|       | 1800 | 208-230/460 | 213T  | D7P2D          | \$857   | DS-3E           | 1.15 | 16.0              | 105             | 91.0           | 20.2-18.5/9.3  |              |
|       | 1800 | 208-230/460 | 213T  | D7PA2A         | \$1,207 | DS-3E           | 1.15 | 16.0              | 90              | 91.0           | 20.5-18.5/9.2  | 24,26        |
|       | 1800 | 575         | 213T  | D7P2G          | \$857   | DS-3E           | 1.15 | 16.0              | 94              | 91.0           | 7.3            |              |
|       | 1200 | 200         | 254T  | D7P3H          | \$1,423 | DS-3E           | 1.15 | 22.6              | 150             | 91.0           | 21.9           | LA           |
|       | 1200 | 208-230/460 | 254T  | D7P3D          | \$1,423 | DS-3E           | 1.15 | 22.6              | 150             | 91.0           | 20.5-18.9/9.5  | 02,03        |
|       | 1200 | 575         | 254T  | D7P3G          | \$1,423 | DS-3E           | 1.15 | 22.6              | 150             | 91.0           | 7.6            | 02           |
|       | 900  | 208-230/460 | 256T  | D7E4D          | \$2,210 | DS-3E           | 1.15 | 23.2              | 172             | 88.5           | 23.9-22.8/11.4 | 02,03,NNP,LA |
|       | 900  | 208-230/460 | 256T  | D7P4D          | \$2,210 | DS-3E           | 1.15 | 23.2              | 172             | 88.5           | 23.9-22.8/11.4 | 02,03,NNP,LA |
|       | 900  | 575         | 256T  | D7E4G          | \$2,210 | DS-3E           | 1.15 | 23.2              | 160             | 88.5           | 9.7            | 02,NNP,LA    |
|       | 900  | 575         | 256T  | D7P4G          | \$2,210 | DS-3E           | 1.15 | 23.2              | 160             | 88.5           | 9.7            | 02,NNP,LA    |

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# General Purpose Three Phase Open Dripproof (ODP) NEMA® Premium Efficient – IE3



**NEMA**  
Premium

(continued)

DE, RE

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs.) | NEMA Nom. Eff. | Full Load Amps | Notes        |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|-----------------|----------------|----------------|--------------|
| 10 | 3600 | 200         | 213T  | D10P1H         | \$1,029 | DS-3E           | 1.15 | 16.0              | 90              | 90.2           | 28             |              |
|    | 3600 | 208-230/460 | 213T  | D10P1D         | \$1,029 | DS-3E           | 1.15 | 16.0              | 90              | 90.2           | 27.1-24.3/12.2 | 03           |
|    | 3600 | 575         | 213T  | D10P1G         | \$1,029 | DS-3E           | 1.15 | 16.0              | 90              | 90.2           | 9.7            |              |
|    | 1800 | 200         | 215T  | D10P2H         | \$1,043 | DS-3E           | 1.15 | 17.5              | 100             | 91.7           | 28.1           |              |
|    | 1800 | 208-230/460 | 215T  | D10P2D         | \$1,043 | DS-3E           | 1.15 | 17.5              | 133             | 91.7           | 26.3-23.8/11.9 |              |
|    | 1800 | 575         | 215T  | D10P2G         | \$1,043 | DS-3E           | 1.15 | 17.5              | 104             | 91.7           | 9.8            |              |
|    | 1200 | 200         | 256T  | D10P3H         | \$1,851 | DS-3E           | 1.15 | 23.2              | 160             | 91.7           | 29.3           |              |
|    | 1200 | 208-230/460 | 256T  | D10P3D         | \$1,851 | DS-3E           | 1.15 | 23.2              | 160             | 91.7           | 27.2-25/12.5   | 02,03        |
|    | 1200 | 575         | 256T  | D10P3G         | \$1,851 | DS-3E           | 1.15 | 23.2              | 160             | 91.7           | 10.2           | 02           |
|    | 900  | 208-230/460 | 284T  | D10E4D         | \$2,621 | DS-3E           | 1.15 | 24.9              | 222             | 89.5           | 31-29.2/14.6   | 02,03,NNP,LA |
|    | 900  | 575         | 284T  | D10E4G         | \$2,621 | DS-3E           | 1.15 | 24.9              | 210             | 89.5           | 12.1           | 02,NNP,LA    |
|    | 900  | 575         | 284T  | D10P4D         | \$2,621 | DS-3E           | 1.15 | 24.9              | 210             | 89.5           | 12.1           | 02,NNP,LA    |
| 15 | 3600 | 200         | 215T  | D15P1H         | \$1,414 | DS-3E           | 1.15 | 17.5              | 100             | 90.2           | 41             |              |
|    | 3600 | 208-230/460 | 215T  | D15P1D         | \$1,414 | DS-3E           | 1.15 | 17.5              | 100             | 90.2           | 40-36/18       | 03           |
|    | 3600 | 575         | 215T  | D15P1G         | \$1,414 | DS-3E           | 1.15 | 17.5              | 104             | 90.2           | 14.6           |              |
|    | 1800 | 208-230/460 | 254T  | D15P2D         | \$1,426 | DS-3E           | 1.15 | 22.6              | 150             | 93.0           | 40.0-37.0/18.4 | 02,03        |
|    | 1800 | 200         | 254T  | D15P2H         | \$1,426 | DS-3E           | 1.15 | 22.6              | 150             | 93.0           | 42             |              |
|    | 1800 | 208-230/460 | 254T  | D15P2D         | \$1,426 | DS-3E           | 1.15 | 22.6              | 150             | 93.0           | 40-36/18.2     | 02,03,LA     |
|    | 1800 | 575         | 254T  | D15P2G         | \$1,426 | DS-3E           | 1.15 | 22.6              | 112             | 93.0           | 14.8           |              |
|    | 1200 | 200         | 284T  | D15P3H         | \$2,363 | DS-3E           | 1.15 | 24.9              | 300             | 91.7           | 42             |              |
|    | 1200 | 208-230/460 | 284T  | D15P3D         | \$2,363 | DS-3E           | 1.15 | 24.9              | 300             | 91.7           | 41-37/18.5     |              |
|    | 1200 | 575         | 284T  | D15P3G         | \$2,363 | DS-3E           | 1.15 | 24.9              | 300             | 91.7           | 14.7           | 02           |
|    | 900  | 200         | 286T  | D15E4H         | \$3,445 | DS-3E           | 1.15 | 24.9              | 230             | 89.5           | 49             | 02,NNP,LA    |
|    | 900  | 208-230/460 | 286T  | D15E4D         | \$3,445 | DS-3E           | 1.15 | 24.9              | 242             | 89.5           | 46-43/21.4     | 02,03,NNP,LA |
|    | 900  | 575         | 286T  | D15E4G         | \$3,445 | DS-3E           | 1.15 | 24.9              | 230             | 89.5           | 17.7           | 02,NNP,LA    |
|    | 900  | 575         | 286T  | D15P4D         | \$3,445 | DS-3E           | 1.15 | 24.9              | 230             | 89.5           | 17.7           | 02,NNP,LA    |
| 20 | 3600 | 200         | 254T  | D20P1H         | \$1,711 | DS-3E           | 1.15 | 22.6              | 150             | 91.7           | 53             | 02           |
|    | 3600 | 208-230/460 | 254T  | D20P1D         | \$1,711 | DS-3E           | 1.15 | 22.6              | 150             | 91.7           | 52-46/23.1     | 02,03        |
|    | 3600 | 575         | 254T  | D20P1G         | \$1,711 | DS-3E           | 1.15 | 22.6              | 150             | 91.0           | 18.7           | 02           |
|    | 1800 | 200         | 256T  | D20P2H         | \$1,829 | DS-3E           | 1.15 | 23.2              | 160             | 93.0           | 56             | 02           |
|    | 1800 | 208-230/460 | 256T  | D20P2D         | \$1,829 | DS-3E           | 1.15 | 23.2              | 160             | 93.0           | 54-49/24.4     |              |
|    | 1800 | 575         | 256T  | D20P2G         | \$1,829 | DS-3E           | 1.15 | 23.2              | 160             | 93.0           | 19.2           |              |
|    | 1200 | 200         | 286T  | D20P3H         | \$2,880 | DS-3E           | 1.15 | 24.9              | 325             | 92.4           | 56             |              |
|    | 1200 | 208-230/460 | 286T  | D20P3D         | \$2,880 | DS-3E           | 1.15 | 24.9              | 325             | 92.4           | 53-49/24       | 02,03        |
|    | 1200 | 575         | 286T  | D20P3G         | \$2,880 | DS-3E           | 1.15 | 24.9              | 325             | 92.4           | 19.3           | 02           |
|    | 900  | 208-230/460 | 324T  | D20E4D         | \$4,077 | DS-3E           | 1.15 | 27.3              | 451             | 90.2           | 60-54/26.9     | 02,03,NNP,LA |
|    | 900  | 575         | 324T  | D20E4G         | \$4,077 | DS-3E           | 1.15 | 27.3              | 420             | 90.2           | 21.5           | 02,NNP,LA    |
| 25 | 3600 | 200         | 256T  | D25P1H         | \$2,237 | DS-3E           | 1.15 | 23.2              | 160             | 91.7           | 67             | 02           |
|    | 3600 | 208-230/460 | 256T  | D25P1D         | \$2,237 | DS-3E           | 1.15 | 23.2              | 230             | 91.7           | 65-57/28.7     | 02,03        |
|    | 3600 | 575         | 256T  | D25P1G         | \$2,237 | DS-3E           | 1.15 | 23.2              | 160             | 91.7           | 22.9           | 02           |
|    | 1800 | 200         | 284T  | D25P2H         | \$2,214 | DS-3E           | 1.15 | 24.9              | 300             | 93.6           | 67             | 02,03        |
|    | 1800 | 200         | 284TS | D25P2HS        | \$2,214 | DS-3E           | 1.15 | 23.5              | 300             | 93.6           | 67             |              |
|    | 1800 | 208-230/460 | 284T  | D25P2D         | \$2,214 | DS-3E           | 1.15 | 24.9              | 300             | 93.6           | 64-58/29       | 02,03        |
|    | 1800 | 208-230/460 | 284TS | D25P2DS        | \$2,214 | DS-3E           | 1.15 | 23.5              | 300             | 93.6           | 64-58/29       |              |
|    | 1800 | 460         | 284TS | D25P2CS        | \$2,214 | DS-3E           | 1.15 | 23.5              | 300             | 93.6           | 29             |              |
|    | 1800 | 575         | 284T  | D25P2G         | \$2,214 | DS-3E           | 1.15 | 24.9              | 300             | 93.6           | 23.1           |              |
|    | 1800 | 575         | 284TS | D25P2GS        | \$2,214 | DS-3E           | 1.15 | 23.5              | 300             | 93.6           | 23.1           | 02           |
|    | 1200 | 200         | 324T  | D25P3H         | \$3,163 | DS-3E           | 1.15 | 27.3              | 385             | 93.0           | 67             | 02           |
|    | 1200 | 208-230/460 | 324T  | D25P3D         | \$3,163 | DS-3E           | 1.15 | 27.3              | 385             | 93.0           | 65-58/29.1     | 02,03        |
|    | 1200 | 575         | 324T  | D25P3G         | \$3,163 | DS-3E           | 1.15 | 27.3              | 385             | 93.0           | 23.5           | 02           |
|    | 900  | 208-230/460 | 326T  | D25E4D         | \$4,829 | DS-3E           | 1.15 | 27.3              | 460             | 91.0           | 74-67/33       | 02,03,NNP,LA |
|    | 900  | 575         | 326T  | D25E4G         | \$4,829 | DS-3E           | 1.15 | 27.3              | 460             | 90.2           | 26.9           | 02,NNP,LA    |

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GENERAL PURPOSE UNIMOUNT  
GENERAL PURPOSE C-FACE  
GENERAL PURPOSE HOSTILE DUTY  
GENERAL PURPOSE CORRO-DUTY  
GENERAL PURPOSE 841 PLUS  
GENERAL PURPOSE OPEN DRIPPROOF  
GENERAL PURPOSE HAZARDOUS LOCATION  
GENERAL PURPOSE AUTOMOTIVE DUTY  
COOLING-TOWER DUTY  
HAZARDOUS LOCATION  
C-FACE MOTORS  
VARIABLE SPEED MOTORS AND DRIVES

# General Purpose Three Phase Open Dripproof (ODP) NEMA® Premium Efficient – IE3


**NEMA**  
Premium

DE, RE

(continued)

| HP               | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs.) | NEMA Nom. Eff. | Full Load Amps | Notes        |
|------------------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|-----------------|----------------|----------------|--------------|
| 30               | 3600 | 200         | 284TS | D30P1HS        | \$2,637 | DS-3E           | 1.15 | 23.5              | 225             | 92.4           | 78             | 02           |
|                  | 3600 | 208-230/460 | 284TS | D30P1DS        | \$2,637 | DS-3E           | 1.15 | 23.5              | 300             | 92.4           | 79-68/34       |              |
|                  | 3600 | 575         | 284TS | D30P1GS        | \$2,637 | DS-3E           | 1.15 | 23.5              | 312             | 93.0           | 27.4           |              |
|                  | 1800 | 200         | 286T  | D30P2H         | \$2,629 | DS-3E           | 1.15 | 24.9              | 350             | 94.1           | 79             |              |
|                  | 1800 | 200         | 286TS | D30P2HS        | \$2,629 | DS-3E           | 1.15 | 23.5              | 350             | 94.1           | 79             |              |
|                  | 1800 | 208-230/460 | 286T  | D30P2D         | \$2,629 | DS-3E           | 1.15 | 24.9              | 250             | 94.1           | 77-69/34       |              |
|                  | 1800 | 208-230/460 | 286TS | D30P2DS        | \$2,629 | DS-3E           | 1.15 | 23.5              | 250             | 94.1           | 77-69/34       |              |
|                  | 1800 | 575         | 286T  | D30P2G         | \$2,629 | DS-3E           | 1.15 | 24.9              | 362             | 94.1           | 27.7           |              |
|                  | 1800 | 575         | 286TS | D30P2GS        | \$2,629 | DS-3E           | 1.15 | 23.5              | 350             | 94.1           | 27.5           | 02           |
|                  | 1200 | 200         | 326T  | D30P3H         | \$3,629 | DS-3E           | 1.15 | 27.3              | 415             | 93.6           | 81             | 02,14        |
|                  | 1200 | 208-230/460 | 326T  | D30P3D         | \$3,629 | DS-3E           | 1.15 | 27.3              | 415             | 93.6           | 78-70/35       | 02,03,14     |
|                  | 1200 | 575         | 326T  | D30P3G         | \$3,629 | DS-3E           | 1.15 | 27.3              | 415             | 93.6           | 28             | 02,14        |
| 40               | 900  | 575         | 364T  | D30E4G         | \$5,352 | DS-3E           | 1.15 | 28.7              | 580             | 91.0           | 30             | 02,NNP,LA    |
|                  | 3600 | 200         | 286TS | D40P1HS        | \$2,883 | DS-3E           | 1.15 | 23.5              | 250             | 93.0           | 104            | 02           |
|                  | 3600 | 208-230/460 | 286TS | D40P1DS        | \$2,883 | DS-3E           | 1.15 | 23.5              | 250             | 93.0           | 104-90/45      | 02,03        |
|                  | 3600 | 575         | 286TS | D40P1GS        | \$2,883 | DS-3E           | 1.15 | 23.5              | 362             | 93.0           | 36             |              |
|                  | 1800 | 200         | 324T  | D40P2H         | \$2,889 | DS-3E           | 1.15 | 27.3              | 454             | 94.1           | 105            | 02           |
|                  | 1800 | 200         | 324TS | D40P2HS        | \$2,889 | DS-3E           | 1.15 | 25.8              | 454             | 94.1           | 105            | 02           |
|                  | 1800 | 208-230/460 | 324T  | D40P2D         | \$2,889 | DS-3E           | 1.15 | 27.3              | 454             | 94.1           | 102-91/46      | 02,03        |
|                  | 1800 | 208-230/460 | 324TS | D40P2DS        | \$2,889 | DS-3E           | 1.15 | 25.8              | 454             | 94.1           | 102-91/46      | 02,03        |
|                  | 1800 | 575         | 324T  | D40P2G         | \$2,889 | DS-3E           | 1.15 | 27.3              | 454             | 94.5           | 37             |              |
|                  | 1800 | 575         | 324TS | D40P2GS        | \$2,889 | DS-3E           | 1.15 | 25.8              | 454             | 94.1           | 36             | 02           |
|                  | 1200 | 230/460     | 364T  | D40P3E         | \$5,786 | DS-3E           | 1.15 | 28.7              | 580             | 94.5           | 92/46          | 02,03        |
|                  | 1200 | 575         | 364T  | D40P3G         | \$5,786 | DS-3E           | 1.15 | 28.7              | 580             | 94.5           | 37             | 02           |
| 50               | 900  | 230/460     | 365T  | D40E4E         | \$6,630 | DS-3E           | 1.15 | 29.7              | 631             | 92.4           | 52             | 02,03,NNP,LA |
|                  | 900  | 575         | 365T  | D40E4G         | \$6,630 | DS-3E           | 1.15 | 29.7              | 600             | 91.7           | 42             | 02,NNP,LA    |
|                  | 3600 | 200         | 324TS | D50P1HS        | \$3,243 | DS-3E           | 1.15 | 25.8              | 385             | 93.0           | 134            | 02           |
|                  | 3600 | 208-230/460 | 324TS | D50P1DS        | \$3,243 | DS-3E           | 1.15 | 25.8              | 450             | 93.0           | 130-117/59     | 02,03        |
|                  | 3600 | 575         | 324TS | D50P1GS        | \$3,243 | DS-3E           | 1.15 | 25.8              | 385             | 93.0           | 47             | 02           |
|                  | 1800 | 200         | 326T  | D50P2H         | \$3,386 | DS-3E           | 1.15 | 27.3              | 415             | 94.5           | 130            | 02           |
|                  | 1800 | 200         | 326TS | D50P2HS        | \$3,386 | DS-3E           | 1.15 | 25.8              | 415             | 94.5           | 130            | 02           |
|                  | 1800 | 208-230/460 | 326T  | D50P2D         | \$3,386 | DS-3E           | 1.15 | 27.3              | 460             | 94.5           | 126-113/56     | 02,03        |
|                  | 1800 | 208-230/460 | 326TS | D50P2DS        | \$3,386 | DS-3E           | 1.15 | 25.8              | 415             | 94.5           | 56             | 02,03        |
|                  | 1800 | 460         | 326TS | D50P2FS        | \$3,386 | DS-3E           | 1.15 | 25.8              | 415             | 94.5           | 56             | 02,03        |
|                  | 1800 | 575         | 326T  | D50P2G         | \$3,386 | DS-3E           | 1.15 | 27.3              | 460             | 94.5           | 46             |              |
|                  | 1800 | 575         | 326TS | D50P2GS        | \$3,386 | DS-3E           | 1.15 | 25.8              | 415             | 94.5           | 45             | 02           |
| 60               | 1200 | 230/460     | 365T  | D50P3E         | \$6,506 | DS-3E           | 1.15 | 29.7              | 580             | 94.5           | 115/57         | 03           |
|                  | 1200 | 575         | 365T  | D50P3G         | \$6,506 | DS-3E           | 1.15 | 29.7              | 580             | 94.5           | 46             | 02           |
|                  | 900  | 230/460     | 404T  | D50E4E         | \$7,899 | DS-3E           | 1.15 | 32.6              | 750             | 92.4           | 66             | 02,03,NNP,LA |
|                  | 900  | 575         | 404T  | D50E4G         | \$7,899 | DS-3E           | 1.15 | 32.6              | 750             | 92.4           | 53             | 02,NNP,LA    |
|                  | 900  | 575         | 404T  | D50P4E         | \$7,899 | DS-3E           | 1.15 | 32.6              | 750             | 92.4           | 53             | 02,NNP,LA    |
|                  | 3600 | 200         | 326TS | D60P1HS        | \$4,469 | DS-3E           | 1.15 | 25.8              | 460             | 93.6           | 155            | 02           |
|                  | 3600 | 208-230/460 | 326TS | D60P1DS        | \$4,469 | DS-3E           | 1.15 | 25.8              | 460             | 93.6           | 152-134/67     | 02,03        |
|                  | 3600 | 575         | 326TS | D60P1GS        | \$4,469 | DS-3E           | 1.15 | 25.8              | 415             | 93.6           | 54             | 02,14        |
|                  | 1800 | 230/460     | 364T  | D60P2E         | \$4,657 | DS-3E           | 1.15 | 28.7              | 580             | 95.0           | 138/69         | 02,03        |
|                  | 1800 | 230/460     | 364TS | D60P2ES        | \$4,657 | DS-3E           | 1.15 | 26.6              | 580             | 95.0           | 138/69         | 03           |
|                  | 1800 | 460         | 364TS | D60P2FS        | \$4,657 | DS-3E           | 1.15 | 26.6              | 580             | 95.0           | 69             | 03           |
|                  | 1800 | 575         | 364T  | D60P2G         | \$4,657 | DS-3E           | 1.15 | 28.7              | 580             | 95.0           | 55             |              |
| C-FACE<br>MOTORS | 1800 | 575         | 364TS | D60P2GS        | \$4,657 | DS-3E           | 1.15 | 26.6              | 580             | 95.0           | 55             | 02           |
|                  | 1200 | 230/460     | 404T  | D60P3E         | \$7,706 | DS-3E           | 1.15 | 32.6              | 750             | 95.0           | 137/69         | 02,03        |
|                  | 1200 | 575         | 404T  | D60P3G         | \$7,706 | DS-3E           | 1.15 | 32.6              | 750             | 94.5           | 55             |              |
|                  | 900  | 230/460     | 405T  | D60E4E         | \$9,159 | DS-3E           | 1.15 | 34.1              | 813             | 93.0           | 79             | 02,03,NNP,LA |
|                  | 900  | 575         | 405T  | D60E4G         | \$9,159 | DS-3E           | 1.15 | 34.1              | 800             | 92.4           | 62             | 02,NNP,LA    |
|                  | 900  | 575         | 405T  | D60P4E         | \$9,159 | DS-3E           | 1.15 | 34.1              | 800             | 92.4           | 62             | 02,NNP,LA    |

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# General Purpose Three Phase Open Dripproof (ODP) NEMA® Premium Efficient – IE3

(continued)



**NEMA**  
Premium

DE, RE

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs.) | NEMA Nom. Eff. | Full Load Amps | Notes        |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|-----------------|----------------|----------------|--------------|
| 75  | 3600 | 230/460 | 364TS | D75P1ES        | \$5,886  | DS-3E           | 1.15 | 26.6              | 580             | 94.1           | 171/86         | 03           |
|     | 3600 | 575     | 364TS | D75P1GS        | \$5,886  | DS-3E           | 1.15 | 26.6              | 580             | 94.1           | 69             |              |
|     | 1800 | 230/460 | 365T  | D75P2E         | \$5,514  | DS-3E           | 1.15 | 29.7              | 735             | 95.0           | 172/86         | 02,03        |
|     | 1800 | 230/460 | 365TS | D75P2ES        | \$5,514  | DS-3E           | 1.15 | 27.6              | 600             | 95.0           | 172/86         | 03           |
|     | 1800 | 460     | 365TS | D75P2FS        | \$5,514  | DS-3E           | 1.15 | 27.6              | 600             | 95.0           | 86             | 03           |
|     | 1800 | 575     | 365T  | D75P2G         | \$5,514  | DS-3E           | 1.15 | 29.7              | 600             | 95.0           | 69             |              |
|     | 1800 | 575     | 365TS | D75P2GS        | \$5,514  | DS-3E           | 1.15 | 27.6              | 600             | 95.0           | 69             | 02           |
|     | 1200 | 230/460 | 405T  | D75P3E         | \$8,674  | DS-3E           | 1.15 | 34.1              | 800             | 95.0           | 172/86         | 02,03        |
|     | 1200 | 575     | 405T  | D75P3G         | \$8,674  | DS-3E           | 1.15 | 34.1              | 800             | 94.5           | 69             | 02           |
|     | 900  | 230/460 | 444T  | D75E4E         | \$11,017 | DS-3E           | 1.15 | 37.8              | 1400            | 93.6           | 188/94         | 02,03,NNP,LA |
|     | 900  | 575     | 444T  | D75E4G         | \$11,017 | DS-3E           | 1.15 | 37.8              | 1100            | 94.1           | 75             | 02,NNP,LA    |
| 100 | 3600 | 230/460 | 365TS | D100P1ES       | \$6,500  | DS-3E           | 1.15 | 27.6              | 600             | 94.1           | 224/112        | 03           |
|     | 3600 | 575     | 365TS | D100P1GS       | \$6,500  | DS-3E           | 1.15 | 27.6              | 600             | 94.1           | 90             | 02           |
|     | 1800 | 230/460 | 404T  | D100P2E        | \$6,571  | DS-3E           | 1.15 | 32.6              | 750             | 95.4           | 225/112        | 02,03        |
|     | 1800 | 230/460 | 404TS | D100P2ES       | \$6,571  | DS-3E           | 1.15 | 29.6              | 750             | 95.4           | 225/112        | 02,03        |
|     | 1800 | 460     | 404TS | D100P2FS       | \$6,571  | DS-3E           | 1.15 | 29.6              | 750             | 95.4           | 112            | 02,03        |
|     | 1800 | 575     | 404T  | D100P2G        | \$6,571  | DS-3E           | 1.15 | 32.6              | 750             | 95.4           | 90             | 02           |
|     | 1800 | 575     | 404TS | D100P2GS       | \$6,571  | DS-3E           | 1.15 | 29.6              | 750             | 95.4           | 90             | 02           |
|     | 1200 | 230/460 | 444T  | D100P3E        | \$10,274 | DS-3E           | 1.15 | 37.8              | 1100            | 95.4           | 242/121        | 02,03        |
|     | 1200 | 460     | 444T  | D100P3C        | \$10,274 | DS-3E           | 1.15 | 37.8              | 1100            | 95.4           | 121            | 03           |
|     | 1200 | 575     | 444T  | D100P3G        | \$10,274 | DS-3E           | 1.15 | 37.8              | 1100            | 95.0           | 97             | 02           |
|     | 900  | 230/460 | 445T  | D100E4E        | \$15,536 | DS-3E           | 1.15 | 39.8              | 1200            | 93.6           | 244/122        | 02,03,NNP,LA |
|     | 900  | 575     | 445T  | D100E4G        | \$15,536 | DS-3E           | 1.15 | 39.8              | 1200            | 94.1           | 99             | 02,NNP,LA    |
| 125 | 3600 | 460     | 404TS | D125P1FS       | \$8,706  | DS-3E           | 1.15 | 29.6              | 750             | 95.0           | 136            | 02,03        |
|     | 3600 | 575     | 404TS | D125P1GS       | \$8,706  | DS-3E           | 1.15 | 29.6              | 750             | 94.5           | 109            | 02           |
|     | 1800 | 460     | 405T  | D125P2F        | \$8,743  | DS-3E           | 1.15 | 34.1              | 800             | 95.4           | 140            | 02,03        |
|     | 1800 | 460     | 405TS | D125P2FS       | \$8,743  | DS-3E           | 1.15 | 31.1              | 800             | 95.4           | 140            | 02,03        |
|     | 1800 | 575     | 405T  | D125P2G        | \$8,743  | DS-3E           | 1.15 | 34.1              | 800             | 95.4           | 112            |              |
|     | 1800 | 575     | 405TS | D125P2GS       | \$8,743  | DS-3E           | 1.15 | 31.1              | 800             | 95.4           | 112            | 02           |
|     | 1200 | 460     | 445T  | D125P3F        | \$11,097 | DS-3E           | 1.15 | 39.8              | 1200            | 95.0           | 151            | 02,03        |
|     | 1200 | 575     | 445T  | D125P3G        | \$11,097 | DS-3E           | 1.15 | 39.8              | 1200            | 95.4           | 121            | 02           |
|     | 900  | 460     | 445T  | D125E4F        | \$16,132 | DS-3E           | 1.15 | 39.8              | 1200            | 94.1           | 157            | 02,03,NNP,LA |
|     | 900  | 575     | 445T  | D125E4G        | \$16,132 | DS-3E           | 1.15 | 39.8              | 1200            | 93.6           | 129            | 02,NNP,LA    |
| 150 | 3600 | 460     | 405TS | D150P1FS       | \$10,743 | DS-3E           | 1.15 | 31.1              | 800             | 94.5           | 164            | 02,03        |
|     | 3600 | 575     | 405TS | D150P1GS       | \$10,743 | DS-3E           | 1.15 | 31.1              | 813             | 94.1           | 131            |              |
|     | 1800 | 460     | 444T  | D150P2F        | \$11,431 | DS-3E           | 1.15 | 37.8              | 1100            | 95.8           | 175            | 02,03        |
|     | 1800 | 460     | 444TS | D150P2FS       | \$11,431 | DS-3E           | 1.15 | 34.0              | 1100            | 95.8           | 175            | 02,03        |
|     | 1800 | 575     | 444T  | D150P2G        | \$11,431 | DS-3E           | 1.15 | 37.8              | 1100            | 95.8           | 140            | 02           |
|     | 1800 | 575     | 444TS | D150P2GS       | \$11,431 | DS-3E           | 1.15 | 34.0              | 1100            | 95.8           | 140            | 02           |
|     | 1200 | 460     | 445T  | D150P3F        | \$14,949 | DS-3E           | 1.15 | 39.8              | 1200            | 95.4           | 189            | 02,03        |
|     | 1200 | 575     | 445T  | D150P3G        | \$14,949 | DS-3E           | 1.15 | 39.8              | 1200            | 95.4           | 154            |              |
|     | 900  | 460     | 447T  | D150E4F        | \$18,201 | DS-3E           | 1.15 | 43.3              | 1700            | 94.1           | 185            | 02,03,NNP,LA |
|     | 900  | 575     | 447T  | D150E4G        | \$18,201 | DS-3E           | 1.15 | 43.3              | 1700            | 93.6           | 150            | 02,NNP,LA    |

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GENERAL  
PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
C-FACE

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY

GENERAL PURPOSE  
841 PLUS®

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING-TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase Open Dripproof (ODP) NEMA® Premium Efficient – IE3

(continued)

NEMA  
Premium

DE, RE

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs.) | NEMA Nom. Eff. | Full Load Amps | Notes           |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|-----------------|----------------|----------------|-----------------|
| 200 | 3600 | 460     | 444TS | D200P1FS       | \$13,917 | DS-3E           | 1.15 | 34.0              | 1100            | 95.0           | 227            | 02,03           |
|     | 3600 | 575     | 444TS | D200P1GS       | \$13,917 | DS-3E           | 1.15 | 34.0              | 1100            | 95.0           | 181            | 02              |
|     | 1800 | 460     | 445T  | D200P2F        | \$14,286 | DS-3E           | 1.15 | 39.8              | 1517            | 96.2           | 231            | 02,03           |
|     | 1800 | 460     | 445TS | D200P2FS       | \$14,286 | DS-3E           | 1.15 | 36.0              | 1517            | 96.2           | 231            | 02,03           |
|     | 1800 | 575     | 445T  | D200P2G        | \$14,286 | DS-3E           | 1.15 | 39.8              | 1200            | 95.8           | 188            | 02              |
|     | 1800 | 575     | 445TS | D200P2GS       | \$14,286 | DS-3E           | 1.15 | 36.0              | 1200            | 95.8           | 188            | 02              |
|     | 1200 | 460     | 447T  | D200P3F        | \$19,649 | DS-3E           | 1.15 | 43.3              | 1700            | 95.4           | 250            | 02,03           |
|     | 1200 | 575     | 447T  | D200P3G        | \$19,649 | DS-3E           | 1.15 | 43.3              | 1700            | 95.4           | 205            | 02              |
|     | 900  | 460     | 449T  | D200E4F        | \$18,512 | DS-3E           | 1.15 | 48.3              | 2000            | 93.6           | 255            | 02,03,57,NNP,LA |
| 250 | 3600 | 460     | 445TS | D250E1FS       | \$17,843 | DS-3FOP         | 1.15 | 36.0              | 1220            | 95.0           | 281            | 02,03,NNP,LA    |
|     | 3600 | 460     | 445TS | D250P1FS       | \$18,343 | DS-3E           | 1.15 | 36.0              | 1200            | 95.4           | 282            | 02,03           |
|     | 3600 | 575     | 445TS | D250P1GS       | \$18,343 | DS-3E           | 1.15 | 36.0              | 1200            | 95.0           | 223            | 02              |
|     | 1800 | 460     | 445T  | D250E2F        | \$14,611 | DS-3E           | 1.15 | 39.8              | 1220            | 95.4           | 277            | 02,03,NNP,LA    |
|     | 1800 | 460     | 445TS | D250E2FS       | \$14,611 | DS-3E           | 1.15 | 36.0              | 1220            | 95.4           | 277            | 02,03,NNP,LA    |
|     | 1800 | 460     | 447T  | D250P2F        | \$16,151 | DS-3E           | 1.15 | 43.3              | 1700            | 95.8           | 284            | 02,03           |
|     | 1800 | 460     | 447TS | D250P2FS       | \$16,151 | DS-3E           | 1.15 | 39.5              | 1700            | 95.8           | 284            | 02,03           |
|     | 1800 | 575     | 445T  | D250E2G        | \$14,611 | DS-3E           | 1.15 | 39.8              | 1200            | 95.4           | 221            | 02,NNP,LA       |
|     | 1800 | 575     | 445TS | D250E2GS       | \$14,611 | DS-3E           | 1.15 | 36.0              | 1200            | 95.4           | 221            | 02,NNP,LA       |
|     | 1800 | 575     | 447T  | D250P2G        | \$16,151 | DS-3E           | 1.15 | 43.3              | 1700            | 95.8           | 228            | 02              |
|     | 1800 | 575     | 447TS | D250P2GS       | \$16,151 | DS-3E           | 1.15 | 39.5              | 1700            | 95.8           | 228            | 02              |
|     | 1200 | 575     | 447T  | D250P3G        | \$22,343 | DS-3E           | 1.15 | 43.3              | 1700            | 95.4           | 228            | 02              |
| 300 | 3600 | 460     | 445TS | D300E1FS       | \$22,944 | DS-3E           | 1.15 | 36.0              | 1220            | 95.4           | 326            | 02,03,NNP,LA    |
|     | 1800 | 460     | 447T  | D300E2F        | \$19,151 | DS-3E           | 1.25 | 43.3              | 1700            | 95.4           | 329            | 02,03,NNP,LA    |
|     | 1800 | 460     | 447T  | D300P2F        | \$21,169 | DS-3E           | 1.15 | 43.3              | 1700            | 95.8           | 328            | 03              |
|     | 1800 | 460     | 447TS | D300E2FS       | \$19,151 | DS-3E           | 1.15 | 39.5              | 1723            | 95.4           | 329            | 02,03,NNP,LA    |
|     | 1800 | 460     | 447TS | D300P2FS       | \$21,169 | DS-3E           | 1.15 | 39.5              | 1700            | 95.8           | 328            | 03              |
|     | 1800 | 575     | 447TS | D300E2GS       | \$19,151 | DS-3E           | 1.15 | 39.5              | 1700            | 95.4           | 263            | 02,NNP,LA       |
|     | 1800 | 575     | 447TS | D300P2GS       | \$21,169 | DS-3E           | 1.15 | 39.5              | 1700            | 95.8           | 262            | 03              |
| 350 | 3600 | 460     | 447TS | D350E1FS       | \$26,261 | DS-3E           | 1.15 | 39.5              | 1723            | 95.8           | 379            | 02,03,NNP,LA    |
|     | 3600 | 460     | 447TS | D350P1FS       | \$29,028 | DS-3E           | 1.15 | 39.5              | 1723            | 95.8           | 379            | 03              |
|     | 1800 | 460     | 447T  | D350E2F        | \$25,946 | DS-3E           | 1.15 | 43.3              | 1723            | 95.8           | 383            | 02,03,NNP,LA    |
|     | 1800 | 460     | 447T  | D350P2F        | \$28,679 | DS-3E           | 1.15 | 43.3              | 1700            | 95.8           | 383            | 03              |
|     | 1800 | 460     | 447TS | D350E2FS       | \$25,946 | DS-3E           | 1.15 | 39.5              | 1723            | 95.8           | 383            | 02,03,NNP,LA    |
|     | 1800 | 460     | 447TS | D350P2FS       | \$28,679 | DS-3E           | 1.15 | 39.5              | 1723            | 95.8           | 383            | 03              |
| 400 | 3600 | 460     | 449TS | D400E1FS       | \$30,809 | DS-3E           | 1.15 | 44.5              | 2000            | 95.4           | 434            | 03,NNP,LA       |
|     | 3600 | 460     | 449TS | D400P1FS       | \$34,056 | DS-3E           | 1.15 | 44.5              | 2000            | 95.8           | 432            | 03              |
|     | 1800 | 460     | 449T  | D400P2F        | \$33,647 | DS-3E           | 1.15 | 48.3              | 2000            | 95.8           | 442            | 03              |
|     | 1800 | 460     | 449T  | D400E2FT       | \$30,439 | DS-3E           | 1.15 | 44.5              | 2000            | 95.8           | 459            | 02,03,57,NNP,LA |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog  
 Note 05 F2 Assembly Position  
 Note 14 NEMA Design A

Note 24 Automatic Reset Thermal Protector Overload  
 Note 26 Does not include World Motor® features  
 Note 57 Not suitable for Belted Applications  
 Note R Reversible Rotation  
 Note LA Limited Availability  
 Note NNP Non-NEMA® Premium Rating

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# General Purpose Three Phase, Open Dripproof (ODP) Resilient Base NEMA®† Premium Efficient

## APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

## FEATURES:

- Rolled Steel Frame
- Aluminum End Shields
- 40°C Ambient
- F1 Assembly Position
- Motors Do Not Include World Motor Features
- Resilient Base

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 1/3   | 1800 | 208-230/460 | 56H   | D13P2AH9       | \$376 | DS-3F           | 1.35 | 11.8              | 26             | 73.4           | 1.4-1.4/0.7    | 35        |
| 1/2   | 1800 | 208-230/460 | 56H   | D12P2AH9       | \$373 | DS-3F           | 1.25 | 11.8              | 25             | 78.2           | 1.98-1.9/98    | 35        |
|       | 1800 | 208-230/460 | 56    | D12S2A9        | \$325 | DS-3F           | 1.25 | 11.9              | 26             | -              | 1.98-1.9/98    | 35,LA,NNP |
| 3/4   | 1800 | 208-230/460 | 56H   | D34P2AH9       | \$396 | DS-3F           | 1.25 | 12.3              | 23             | 82.2           | 2.8-2.7/1.4    | 35        |
| 1     | 1800 | 208-230/460 | 56H   | D1P2DH9        | \$453 | DS-3F           | 1.15 | 12.8              | 32             | 83.5           | 3.2-3.0/1.5    | 35        |
|       | 1800 | 208-230/460 | 56H   | D1S2AH9        | \$394 | DS-3F           | 1.25 | 12.8              | 27             | 83.5           | 3.2-3.0/1.5    | 35,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 56H   | D32PA1AH9      | \$622 | DS-3F           | 1.15 | 12.3              | 32             | 84.0           | 4.7-4.4/ 2.2   | 35        |
|       | 3600 | 208-230/460 | 56H   | D32SA1AH9      | \$541 | DS-3F           | 1.15 | 12.8              | 32             | 82.0           | 4.7-4.4/ 2.2   | 35,NNP,LA |
|       | 1800 | 208-230/460 | 56H   | D32P2AH9       | \$473 | DS-3F           | 1.15 | 13.3              | 33             | 86.5           | 5.0- 4.8/2.4   | 35        |
|       | 1800 | 208-230/460 | 56H   | D32S2AH9       | \$412 | DS-3F           | 1.25 | 12.8              | 26             | 80.0           | 4.9-5.0/2.5    | 35,NNP,LA |

Note LA Limited Availability  
 Note NNP Non-NEMA®† Premium Rating  
 Note 35 Resilient Base

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Open Dripproof (ODP) NEMA® Premium Efficient, C-Face


**NEMA**  
Premium

DE, RE

## APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

## FEATURES:

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Service Factor On 60 Hertz Sine Wave Power
- Rolled Steel Frame 56-320, Cast Iron Frame 360-440
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- "CE" Mark On Nameplate (140 Frame & Larger)
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- 40°C Ambient, NEMA® Design B Performance On 60 Hz Sine Wave Power
- Conversion Kits: Drip Cover Kits (140-320 Frame)
- Full HP @ 50 Hz
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings 48-400
- Bearing Cap On 440 Frame
- Suitable For Wye-Delta Start 250 Frame & Larger
- F1 Assembly Position
- Lifting Provisions 210 Frame & Up

## Footed

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|---------------|----------------|----------------|----------|
| 1/3   | 1800 | 208-230/460 | 56HC   | D13P2AHC       | \$302   | DS-3E           | 1.35 | 11.4              | 26            | 73.4           | 1.4-1.4/0.7    | 26       |
| 1     | 1800 | 208-230/460 | 143TC  | D1P2DC         | \$474   | DS-3E           | 1.15 | 13.3              | 30            | 85.5           | 3.2-3.1/1.5    |          |
|       | 1800 | 208-230/460 | 56HC   | D1P2AHC        | \$433   | DS-3E           | 1.15 | 12.4              | 26            | 83.5           | 3.2-3.0/1.5    | 26       |
| 1 1/2 | 3600 | 208-230/460 | 143TC  | D32P1DC        | \$505   | DS-3E           | 1.15 | 13.3              | 30            | 84.0           | 4.2-3.8/1.9    |          |
|       | 3600 | 208-230/460 | 56HC   | D32S1AHC       | \$480   | DS-3E           | 1.15 | 11.9              | 32            | 82.0           | 4.7-4.4/ 2.2   | 26,NNPLA |
|       | 3600 | 208-230/460 | 56C    | D32P1AHC       | \$500   | DS-3E           | 1.25 | 11.9              | 32            | -              | 4.7-4.4/ 2.2   |          |
|       | 1800 | 208-230/460 | 145TC  | D32P2DC        | \$499   | DS-3E           | 1.15 | 13.3              | 35            | 86.5           | 4.4-4.2/2.1    |          |
| 2     | 3600 | 208-230/460 | 145TC  | D2P1DC         | \$551   | DS-3E           | 1.15 | 12.8              | 35            | 85.5           | 5.5-5/2.5      |          |
|       | 3600 | 208-230/460 | 56HC   | D2P1AHC        | \$494   | DS-3E           | 1.15 | 11.9              | 32            | 85.5           | 6.0-5.4/2.7    | 26       |
|       | 3600 | 208-230/460 | 56HC   | D2S1AHC        | \$429   | DS-3E           | 1.15 | 11.9              | 32            | 82.5           | 6.0-5.4/2.7    | 26,NNPLA |
|       | 1800 | 208-230/460 | 145TC  | D2P2DC         | \$548   | DS-3E           | 1.15 | 12.8              | 35            | 86.5           | 5.9-5.6/2.8    |          |
| 3     | 3600 | 208-230/460 | 145TC  | D3P1DC         | \$566   | DS-3E           | 1.15 | 13.3              | 35            | 85.5           | 8.3-7.4/3.7    |          |
|       | 1800 | 208-230/460 | 182TC  | D3P2DC         | \$582   | DS-3E           | 1.15 | 15.8              | 50            | 89.5           | 8.4-7.8/3.9    |          |
| 5     | 3600 | 208-230/460 | 182TC  | D5P1DC         | \$603   | DS-3E           | 1.15 | 15.8              | 50            | 89.5           | 13.5-12.3/6.2  |          |
|       | 1800 | 208-230/460 | 184TC  | D5P2DC         | \$627   | DS-3E           | 1.15 | 15.8              | 60            | 89.5           | 13.8-13/6.5    |          |
| 7 1/2 | 3600 | 208-230/460 | 184TC  | D7P1DC         | \$942   | DS-3E           | 1.15 | 15.8              | 60            | 88.5           | 20.3-18.1/9.1  |          |
|       | 1800 | 208-230/460 | 213TC  | D7P2DC         | \$917   | DS-3E           | 1.15 | 16.8              | 100           | 91.0           | 20.2-18.5/9.3  |          |
| 10    | 3600 | 208-230/460 | 213TC  | D10P1DC        | \$1,101 | DS-3E           | 1.15 | 16.8              | 100           | 90.2           | 27.1-24.3/12.2 |          |
|       | 1800 | 208-230/460 | 215TC  | D10P2DC        | \$1,116 | DS-3E           | 1.15 | 18.3              | 110           | 91.7           | 26.3-23.8/11.9 |          |
| 15    | 3600 | 208-230/460 | 215TC  | D15P1DC        | \$1,513 | DS-3E           | 1.15 | 18.3              | 100           | 90.2           | 40-36/18       |          |
|       | 1800 | 208-230/460 | 254TC  | D15P2DC        | \$1,526 | DS-3E           | 1.15 | 23.0              | 150           | 93.0           | 40-36/18.2     | 02,03    |
| 20    | 3600 | 208-230/460 | 254TC  | D20P1DC        | \$1,831 | DS-3E           | 1.15 | 23.0              | 150           | 91.7           | 52-46/23.1     | 02,03    |
|       | 1800 | 208-230/460 | 256TC  | D20P2DC        | \$1,957 | DS-3E           | 1.15 | 23.6              | 170           | 93.0           | 54-49/24.4     |          |
| 25    | 3600 | 208-230/460 | 256TC  | D25P1DC        | \$2,394 | DS-3E           | 1.15 | 23.6              | 160           | 91.7           | 65-57/28.7     | 02,03    |
|       | 1800 | 208-230/460 | 284TC  | D25P2DC        | \$2,446 | DS-3E           | 1.15 | 24.9              | 300           | 93.6           | 64-58/29       | 02,03    |
| 30    | 3600 | 208-230/460 | 284TSC | D30P1DSC       | \$2,869 | DS-3E           | 1.15 | 23.5              | 300           | 92.4           | 79-68/34       | 02,03    |
|       | 1800 | 208-230/460 | 286TC  | D30P2DC        | \$2,861 | DS-3E           | 1.15 | 24.9              | 350           | 94.1           | 77-69/34       | 02,03    |
| 40    | 3600 | 208-230/460 | 286TSC | D40P1DSC       | \$3,115 | DS-3E           | 1.15 | 23.5              | 250           | 93.0           | 104-90/45      | 02,03    |
|       | 1800 | 208-230/460 | 324TC  | D40P2DC        | \$3,424 | DS-3E           | 1.15 | 27.3              | 385           | 94.1           | 102-91/46      | 02,03    |
| 50    | 3600 | 208-230/460 | 324TSC | D50P1DSC       | \$3,778 | DS-3E           | 1.15 | 25.8              | 385           | 93.0           | 130-117/59     | 02,03    |
|       | 1800 | 208-230/460 | 326TC  | D50P2DC        | \$3,921 | DS-3E           | 1.15 | 27.3              | 415           | 94.5           | 126-113/56     | 02,03    |
| 60    | 3600 | 208-230/460 | 326TSC | D60P1DSC       | \$5,004 | DS-3E           | 1.15 | 25.8              | 460           | 93.6           | 152-134/67     | 02,03    |

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|---------------|----------------|----------------|----------|
| 1/4   | 1800 | 208-230/460 | 56C   | D14P2ACR       | \$281 | DS-3E           | 1.35 | 10.9              | 26            | 69.5           | 1.1-1.2/0.6    |          |
|       | 1800 | 208-230/460 | 56C   | D14S2ACR       | \$243 | DS-3E           | 1.35 | 10.9              | 26            | 68.0           | 1.1-1.2/0.6    | 26,NNPLA |
| 1/3   | 1800 | 208-230/460 | 56C   | D13P2ACR       | \$299 | DS-3E           | 1.35 | 11.4              | 26            | 73.4           | 1.4-1.4/0.7    |          |
|       | 1800 | 208-230/460 | 56C   | D13S2ACR       | \$259 | DS-3E           | 1.35 | 11.4              | 26            | 75.5           | 1.4-1.4/0.7    | 26,NNPLA |
| 1/2   | 1800 | 208-230/460 | 56C   | D12P2ACR       | \$342 | DS-3E           | 1.25 | 11.4              | 26            | 78.2           | 1.98-1.9/98    |          |
| 3/4   | 1800 | 208-230/460 | 56C   | D34P2ACR       | \$381 | DS-3E           | 1.25 | 11.9              | 26            | 81.1           | 2.8-2.7/1.4    |          |
|       | 1800 | 208-230/460 | 56C   | D34S2ACR       | \$331 | DS-3E           | 1.25 | 11.9              | 26            | -              | 2.8-2.7/1.4    | 26,NNPLA |
|       | 1200 | 208-230/460 | 56C   | D34S3DCR       | \$499 | DS-3E           | 1.15 | 12.2              | 32            | 75.5           | 3.4-3.5/1.7    | 26,NNPLA |
| 1     | 3600 | 208-230/460 | 56C   | D1P1ACR        | \$425 | DS-3E           | 1.25 | 11.4              | 32            | -              | 3.1-3.0/1.5    |          |
|       | 3600 | 208-230/460 | 56C   | D1S1ACR        | \$369 | DS-3E           | 1.25 | 11.4              | 32            | -              | 3.1-3.0/1.5    | 26,NNPLA |
| 1 1/2 | 3600 | 208-230/460 | 56C   | D32P1ACR       | \$502 | DS-3E           | 1.25 | 11.9              | 32            | -              | 4.7-4.4/2.2    |          |
|       | 1800 | 208-230/460 | 56C   | D32S2ACR       | \$382 | DS-3E           | 1.25 | 12.4              | 26            | 80.0           | 4.9-5.0/2.5    | 26,NNPLA |
|       | 1800 | 208-230/460 | 56C   | D32P2ACR       | \$496 | DS-3E           | 1.25 | 12.9              | 35            | -              | 4.8-4.8/2.4    |          |
| 2     | 3600 | 208-230/460 | 56C   | D2P1ACR        | \$548 | DS-3E           | 1.15 | 11.9              | 32            | 85.5           | 6.0-5.4/2.7    |          |
|       | 1800 | 208-230/460 | 145TC | D2P2ACR        | \$545 | DS-3E           | 1.25 | 12.9              | 26            | -              | 6.1-6.2/3.1    |          |
|       | 1800 | 208-230/460 | 145TC | D32E2A14CR     | \$554 | DS-3F           | 1.15 | 12.9              | 26            | 84.0           | 5.0-4.9/2.5    | NNPLA    |
|       | 1800 | 208-230/460 | 145TC | D2E2ACR        | \$475 | DS-3E           | 1.15 | 12.4              | 26            | 84.0           | 6.1-6.2/3.1    | 26,NNPLA |
|       | 1800 | 208-230/460 | 56C   | D2S2ACR        | \$541 | DS-3F           | 1.15 | 12.9              | 26            | 84.0           | 6.1-6.2/3.1    | NNPLA    |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate; 50Hz efficiencies at rated HP may be less than IE3 & IE2 levels. 50Hz performance data is viewable in the e-catalog

Note 26 Does not include WORLD MOTOR® features

Note LA Limited Availability

Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA<sup>®</sup> Premium Efficient – IE3, Dual Label



## APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.



LE, FL

## FEATURES:

### For all Products Listed in this Section:

- UL<sup>®</sup> Listed & CSA<sup>®</sup> Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below

### For Catalog Numbers Beginning with "X" or "Y":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sinewave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

### For Catalog Numbers Beginning with "XS":

- Aluminum End Brackets & Conduit Box
- Class B Insulation
- Steel Frame

| HP    | RPM  | Voltage     | Frame | Catalog Number | Class I Group | Class II Group | Temp Code | List    | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------------|----------------|-----------|---------|-----------------|-------------------|----------------|----------------|----------------|-----------|
| 1/2   | 1800 | 208-230/460 | 56    | XS12SA2D       | D             | EFG            | T3B       | \$505   | DS-3CXD         | 12.4              | 26             | -              | 2.0-1.9/1.0    | 13,24     |
|       | 1200 | 208-230/460 | 56    | XS12SA3A       | CD            | EFG            | T3B       | \$615   | DS-3CXD         | 13.2              | 32             | -              | 2.2-2.3/1.1    | 13,24     |
| 3/4   | 1800 | 208-230/460 | 56    | XS34SA2A       | D             | EFG            | T3B       | \$576   | DS-3CXD         | 13.7              | 32             | -              | 2.8-2.9/1.4    | 13,24     |
|       | 1200 | 208-230/460 | 143T  | XS34S3A14      | CD            | EFG            | T3C       | \$700   | DS-3CXD         | 15.0              | 32             | -              | 3.1-3.2/1.6    | 13        |
| 1     | 1800 | 230/460     | 143T  | X1P2B          | D             | FG             | T3B       | \$729   | DS-3CXD         | 12.9              | 60             | 85.5           | 3/1.5          | 51        |
|       | 1200 | 230/460     | 145T  | X1P3B          | D             | FG             | T3B       | \$991   | DS-3CXD         | 12.9              | 80             | 82.5           | 3.8/1.9        |           |
|       | 900  | 230/460     | 182T  | X1E4B          | D             | FG             | T3B       | \$1,526 | DS-3CXD         | 16.0              | 90             | 74.0           | 4.7/2.4        | NNP       |
|       | 900  | 230/460     | 182T  | X1S4B          | D             | FG             | T3B       | \$1,526 | DS-3CXD         | 14.6              | 90             | 66.0           | 5.1/2.6        | NNP       |
| 1 1/2 | 3600 | 230/460     | 143T  | X32P1B         | D             | FG             | T3B       | \$840   | DS-3CXD         | 12.9              | 70             | 84.0           | 3.9/1.9        |           |
|       | 1800 | 208-230/460 | 145T  | XS32P2A14      | D             | FG             | T3B       | \$808   | DS-3CXD         | 15.5              | 32             | 86.5           | 4.7-4.6/2.3    |           |
|       | 1800 | 230/460     | 145T  | X32P2B         | D             | FG             | T3B       | \$808   | DS-3CXD         | 12.9              | 80             | 86.5           | 4.3/2.1        |           |
|       | 1200 | 230/460     | 182T  | X32P3B         | D             | FG             | T3B       | \$1,093 | DS-3CXD         | 16.0              | 90             | 87.5           | 4.6/2.3        |           |
|       | 900  | 230/460     | 184T  | X32E4B         | D             | FG             | T3B       | \$1,525 | DS-3CXD         | 16.0              | 105            | 77.0           | 6.6/3.3        | NNP       |
| 2     | 3600 | 230/460     | 145T  | X2P1B          | D             | FG             | T3B       | \$998   | DS-3CXD         | 12.9              | 75             | 85.5           | 4.9/2.4        |           |
|       | 1800 | 208-230/460 | 56H   | XS2SA2AH       | CD            | EFG            | T3C       | \$886   | DS-3CXD         | 16.7              | 32             | -              | 6.7-6.4/3.2    | 13,24,NNP |
|       | 1800 | 230/460     | 145T  | X2P2B          | D             | FG             | T3B       | \$886   | DS-3CXD         | 12.9              | 80             | 86.5           | 5.2/2.6        |           |
|       | 1200 | 230/460     | 184T  | X2P3B          | D             | FG             | T3B       | \$1,216 | DS-3CXD         | 16.0              | 100            | 88.5           | 5.8/2.9        |           |
|       | 900  | 230/460     | 213T  | X2E4B          | D             | FG             | T3B       | \$1,880 | DS-3CXD         | 19.2              | 165            | 82.5           | 6.9/3.5        | NNP       |
| 3     | 3600 | 230/460     | 182T  | X3P1B          | D             | FG             | T3B       | \$1,116 | DS-3CXD         | 16.0              | 85             | 86.5           | 7.8/3.9        |           |
|       | 1800 | 230/460     | 182T  | X3P2B          | D             | FG             | T3B       | \$986   | DS-3CXD         | 16.0              | 96             | 89.5           | 7.7/3.8        |           |
|       | 1200 | 230/460     | 213T  | X3P3B          | D             | FG             | T3B       | \$1,503 | DS-3CXD         | 19.2              | 151            | 89.5           | 8.8/4.4        |           |
|       | 900  | 230/460     | 215T  | X3E4B          | D             | FG             | T3B       | \$2,097 | DS-3CXD         | 19.2              | 300            | 84.0           | 10.4/5.2       | NNP       |
| 5     | 3600 | 230/460     | 184T  | X5P1B          | D             | FG             | T3B       | \$1,400 | DS-3CXD         | 16.0              | 95             | 88.5           | 12/6           |           |
|       | 1800 | 230/460     | 184T  | X5P2B          | D             | FG             | T3B       | \$1,147 | DS-3CXD         | 16.0              | 110            | 89.5           | 12.5/6.2       |           |
|       | 1200 | 230/460     | 215T  | X5P3B          | D             | FG             | T3B       | \$2,152 | DS-3CXD         | 19.2              | 157            | 89.5           | 13.9/7         |           |
|       | 900  | 230/460     | 254T  | X5E4B          | CD            | FG             | T3C       | \$3,239 | DS-3CXD         | 25.3              | 310            | 85.5           | 17.5/8.7       | NNP       |
| 7 1/2 | 3600 | 230/460     | 213T  | X7P1B          | D             | FG             | T3B       | \$1,730 | DS-3CXD         | 19.2              | 156            | 89.5           | 18.6/9.3       |           |
|       | 1800 | 230/460     | 213T  | X7P2B          | D             | FG             | T3B       | \$1,564 | DS-3CXD         | 19.2              | 160            | 91.7           | 18.6/9.3       |           |
|       | 1200 | 230/460     | 254T  | X7P3B          | CD            | FG             | T3C       | \$2,788 | DS-3CXD         | 25.3              | 300            | 91.0           | 18.8/9.4       |           |
| 10    | 3600 | 230/460     | 215T  | X10P1B         | D             | FG             | T3B       | \$2,027 | DS-3CXD         | 19.2              | 175            | 90.2           | 23.6/11.8      |           |
|       | 1800 | 230/460     | 215T  | X10P2B         | D             | FG             | T3B       | \$1,889 | DS-3CXD         | 19.2              | 194            | 91.7           | 23.9/12        |           |
|       | 1200 | 230/460     | 256T  | X10P3B         | CD            | FG             | T3C       | \$3,368 | DS-3CXD         | 25.3              | 320            | 91.0           | 24.8/12.4      |           |

Note 13 Steel Frame Construction  
Note 24 Automatic Reset Thermal Protector Overload

Note 51 Equipped with Winding Thermostat  
Note NNP Non-NEMA<sup>®</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



GENERAL PURPOSE UNIMOUNT  
GENERAL PURPOSE C-FACE  
GENERAL PURPOSE HOSTILE DUTY  
GENERAL PURPOSE CORRO-DUTY  
GENERAL PURPOSE 841 PLUS<sup>®</sup>  
GENERAL PURPOSE OPEN DRIPPROOF  
GENERAL PURPOSE HAZARDOUS LOCATION  
GENERAL PURPOSE AUTOMOTIVE DUTY  
COOLING-TOWER DUTY  
HAZARDOUS LOCATION  
C-FACE MOTORS  
VARIABLE SPEED MOTORS AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient – IE3, Dual Label



(continued)



LE, FL

| HP  | RPM  | Voltage | Frame | Catalog Number | Class I Group | Class II Group | Temp Code | List     | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|---------------|----------------|-----------|----------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 15  | 3600 | 230/460 | 254T  | X15P1B         | CD            | FG             | T3C       | \$2,817  | DS-3CXD         | 25.3              | 320            | 91.0           | 35/17.5        |       |
|     | 1800 | 230/460 | 254T  | X15P2B         | CD            | FG             | T3C       | \$2,533  | DS-3CXD         | 25.3              | 316            | 92.4           | 37/18.3        |       |
|     | 1800 | 575     | 254T  | X15P2G         | CD            | FG             | T3C       | \$2,533  | DS-3CXD         | 25.3              | 300            | 92.4           | 14.6           |       |
|     | 1200 | 230/460 | 284T  | X15P3B         | CD            | FG             | T3C       | \$4,617  | DS-3CXD         | 27.0              | 390            | 91.7           | 37/18.2        |       |
| 20  | 3600 | 230/460 | 256T  | X20P1B         | CD            | FG             | T3C       | \$3,487  | DS-3CXD         | 25.3              | 375            | 91.0           | 46/23.1        |       |
|     | 1800 | 230/460 | 256T  | X20P2B         | CD            | FG             | T3C       | \$3,122  | DS-3CXD         | 25.3              | 375            | 93.0           | 48/23.8        |       |
|     | 1800 | 575     | 256T  | X20P2G         | CD            | FG             | T3C       | \$3,122  | DS-3CXD         | 25.3              | 375            | 93.0           | 19             |       |
|     | 1200 | 230/460 | 286T  | X20P3B         | CD            | FG             | T3C       | \$5,593  | DS-3CXD         | 27.0              | 458            | 91.7           | 49/24.4        |       |
| 25  | 3600 | 230/460 | 284TS | X25P1BS        | CD            | FG             | T3C       | \$4,208  | DS-3CXD         | 25.6              | 350            | 91.7           | 57/28.7        |       |
|     | 1800 | 230/460 | 284T  | X25P2B         | CD            | FG             | T3C       | \$3,685  | DS-3CXD         | 27.0              | 286            | 93.6           | 58/28.9        |       |
|     | 1800 | 575     | 284T  | X25P2G         | CD            | FG             | T3C       | \$3,685  | DS-3CXD         | 27.0              | 390            | 93.6           | 23             |       |
|     | 1200 | 230/460 | 324T  | X25P3B         | CD            | FG             | T3C       | \$6,707  | DS-3CXD         | 30.7              | 575            | 93.0           | 61/31          |       |
| 30  | 3600 | 230/460 | 286TS | X30P1BS        | CD            | FG             | T3C       | \$4,934  | DS-3CXD         | 25.6              | 410            | 91.7           | 69/34          |       |
|     | 1800 | 230/460 | 286T  | X30P2B         | CD            | FG             | T3C       | \$4,298  | DS-3CXD         | 27.0              | 433            | 93.6           | 69/34          |       |
|     | 1800 | 575     | 286T  | X30P2G         | CD            | FG             | T3C       | \$4,298  | DS-3CXD         | 27.0              | 460            | 93.0           | 27.6           |       |
|     | 1200 | 230/460 | 326T  | X30P3B         | CD            | FG             | T3C       | \$7,914  | DS-3CXD         | 30.7              | 685            | 93.0           | 74/37          |       |
| 40  | 3600 | 230/460 | 324TS | X40P1BS        | CD            | FG             | T3C       | \$6,426  | DS-3CXD         | 29.2              | 564            | 92.4           | 90/45          |       |
|     | 1800 | 230/460 | 324T  | X40P2B         | CD            | FG             | T3C       | \$5,656  | DS-3CXD         | 30.7              | 590            | 94.1           | 90/45          |       |
|     | 1800 | 575     | 324T  | X40P2G         | CD            | FG             | T3C       | \$5,656  | DS-3CXD         | 30.7              | 575            | 93.6           | 36             |       |
|     | 1200 | 230/460 | 364T  | X40P3B         | CD            | FG             | T3C       | \$10,476 | DS-3CXD         | 32.3              | 725            | 94.1           | 92/46          |       |
| 50  | 3600 | 230/460 | 326TS | X50P1BS        | CD            | FG             | T3C       | \$8,269  | DS-3CXD         | 29.2              | 650            | 93.0           | 114/57         |       |
|     | 1800 | 230/460 | 326T  | X50P2B         | CD            | FG             | T3C       | \$6,944  | DS-3CXD         | 30.7              | 650            | 94.5           | 112/56         |       |
|     | 1800 | 460     | 326T  | X50P2C         | CD            | FG             | T3C       | \$6,944  | DS-3CXD         | 30.7              | 650            | 94.5           | 56             |       |
|     | 1800 | 575     | 326T  | X50P2G         | CD            | FG             | T3C       | \$6,944  | DS-3CXD         | 30.7              | 650            | 94.1           | 45             |       |
|     | 1200 | 230/460 | 365T  | X50P3B         | CD            | FG             | T3C       | \$12,069 | DS-3CXD         | 32.3              | 950            | 94.1           | 115/58         |       |
| 60  | 3600 | 230/460 | 364TS | X60P1BS        | CD            | FG             | T3C       | \$10,848 | DS-3CXD         | 30.1              | 750            | 93.6           | 136/68         |       |
|     | 1800 | 230/460 | 364T  | X60P2B         | CD            | FG             | T3C       | \$9,924  | DS-3CXD         | 32.3              | 810            | 95.0           | 136/68         |       |
|     | 1800 | 575     | 364T  | X60P2G         | CD            | FG             | T3C       | \$9,924  | DS-3CXD         | 32.3              | 725            | 95.0           | 54             |       |
| 75  | 3600 | 230/460 | 365TS | X75P1BS        | CD            | FG             | T3C       | \$13,631 | DS-3CXD         | 30.1              | 850            | 93.6           | 166/83         |       |
|     | 1800 | 230/460 | 365T  | X75P2B         | CD            | FG             | T3C       | \$12,622 | DS-3CXD         | 32.3              | 850            | 95.4           | 169/84         |       |
|     | 1800 | 575     | 365T  | X75P2G         | CD            | FG             | T3C       | \$12,622 | DS-3CXD         | 32.3              | 875            | 95.4           | 67             |       |
| 100 | 1800 | 230/460 | 405T  | X100P2B        | CD            | FG             | T3C       | \$14,501 | DS-3CXD         | 36.5              | 1170           | 95.4           | 225/113        |       |
|     | 1800 | 575     | 405T  | X100P2G        | CD            | FG             | T3C       | \$14,501 | DS-3CXD         | 36.5              | 1225           | 95.0           | 90             |       |
|     | 1200 | 460     | 444T  | X100P3C        | D             | FG             | T3B       | \$21,232 | DS-3CXD         | 45.8              | 1485           | 95.0           | 124            |       |
| 125 | 1800 | 460     | 444T  | X125P2C        | D             | FG             | T3B       | \$17,910 | DS-3CXD         | 45.8              | 1560           | 95.4           | 147            |       |
|     | 1800 | 575     | 444T  | X125P2G        | D             | FG             | T3B       | \$17,910 | DS-3CXD         | 45.8              | 1575           | 95.4           | 118            |       |
| 150 | 1800 | 460     | 445T  | X150P2C        | D             | FG             | T3B       | \$21,257 | DS-3CXD         | 45.8              | 1625           | 95.8           | 171            |       |
|     | 1800 | 575     | 445T  | X150P2G        | D             | FG             | T3B       | \$21,257 | DS-3CXD         | 45.8              | 1800           | 95.8           | 137            |       |
| 200 | 1800 | 460     | 447T  | X200P2C        | D             | FG             | T3B       | \$25,899 | DS-3CXD         | 49.4              | 2200           | 96.2           | 227            |       |
|     | 1800 | 575     | 447T  | X200P2G        | D             | FG             | T3B       | \$25,899 | DS-3CXD         | 49.4              | 2100           | 95.8           | 180            |       |

† All marks shown within this document are properties of their respective owners.





# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA<sup>®†</sup> Premium Efficient – IE3, Single Label, CORRO-DUTY<sup>®</sup>

## APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.



**NEMA**  
**Premium**

FLC,  
LCE

## FEATURES:

- UL<sup>®†</sup> Listed & CSA<sup>®†</sup> Certified
- All Cast Iron Construction (140 Frame Has Steel Base)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- 40°C Ambient, NEMA<sup>®†</sup> Design B Performance On 60 Hertz Sine Wave Power
- Regreaseable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Sealed Bearings 56-140, Shielded 180-360, Open 400-440 Frames
- Class F Insulation, Listed For Ambients -25°C To +40°C
- Brass Breather Plug
- Suitable For Inverter Use Per Policy Statement In Introduction, 2:1 CT
- Class I (Group D), T2B Temperature Code
- 1.15 Service Factor On 60 Hertz Sinewave Power

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/2   | 1800 | 208-230/460 | 56    | Y12S2B         | \$658   | DS-3F           | 1.00 | 11.6              | 49             | -              | 1.8-1.7/0.9    | 13,NNP |
| 3/4   | 1800 | 230/460     | 56    | Y34S2B         | \$694   | DS-3F           | 1.00 | 11.6              | 51             | -              | 2.7/1.3        | 13,NNP |
| 1     | 1800 | 230/460     | 143T  | YC1P2B         | \$872   | DS-3CX          | 1.15 | 13.1              | 80             | 85.5           | 3/1.5          |        |
|       | 1200 | 230/460     | 145T  | YC1P3B         | \$1,022 | DS-3CX          | 1.00 | 13.1              | 80             | 82.5           | 3.8/1.9        |        |
|       | 900  | 230/460     | 182T  | YC1E4B         | \$1,583 | DS-3CX          | 1.15 | 16.1              | 100            | 74.0           | 4.7/2.4        | NNP,LA |
| 1 1/2 | 3600 | 230/460     | 143T  | YC32P1B        | \$913   | DS-3CX          | 1.15 | 13.1              | 70             | 84.0           | 3.9/1.9        |        |
|       | 1800 | 230/460     | 145T  | YC32P2B        | \$917   | DS-3CX          | 1.15 | 13.1              | 80             | 86.5           | 4.3/2.1        |        |
|       | 1200 | 230/460     | 182T  | YC32P3B        | \$1,106 | DS-3CX          | 1.00 | 16.1              | 100            | 87.5           | 4.6/2.3        |        |
|       | 900  | 230/460     | 184T  | YC32E4B        | \$2,208 | DS-3CX          | 1.15 | 16.1              | 108            | 77.0           | 6.6/3.3        | NNP,LA |
| 2     | 3600 | 230/460     | 145T  | YC2P1B         | \$1,017 | DS-3CX          | 1.15 | 13.1              | 75             | 86.5           | 4.9/2.4        |        |
|       | 1800 | 230/460     | 145T  | YC2P2B         | \$980   | DS-3CX          | 1.15 | 13.1              | 80             | 86.5           | 5.2/2.6        |        |
|       | 1200 | 230/460     | 184T  | YC2P3B         | \$1,281 | DS-3CX          | 1.15 | 16.1              | 110            | 88.5           | 5.8/2.9        |        |
|       | 900  | 230/460     | 213T  | YC2E4B         | \$2,363 | DS-3CX          | 1.15 | 20.0              | 165            | 82.5           | 6.9/3.5        | NNP,LA |
| 3     | 3600 | 230/460     | 182T  | YC3P1B         | \$1,147 | DS-3CX          | 1.15 | 16.1              | 95             | 86.5           | 7.8/3.9        |        |
|       | 1800 | 230/460     | 182T  | YC3P2B         | \$1,149 | DS-3CX          | 1.15 | 16.1              | 96             | 89.5           | 7.7/3.8        |        |
|       | 1200 | 230/460     | 213T  | YC3P3B         | \$1,643 | DS-3CX          | 1.15 | 20.0              | 151            | 89.5           | 8.8/4.4        |        |
|       | 900  | 230/460     | 215T  | YC3E4B         | \$2,934 | DS-3CX          | 1.15 | 20.0              | 300            | 84.0           | 10.4/5.2       | NNP,LA |
| 5     | 3600 | 230/460     | 184T  | YC5P1B         | \$1,445 | DS-3CX          | 1.15 | 16.1              | 104            | 88.5           | 12/6           |        |
|       | 1800 | 230/460     | 184T  | YC5P2B         | \$1,279 | DS-3CX          | 1.15 | 16.1              | 110            | 89.5           | 12.5/6.2       |        |
|       | 1200 | 230/460     | 215T  | YC5P3B         | \$2,184 | DS-3CX          | 1.15 | 20.0              | 157            | 89.5           | 13.9/7         |        |
|       | 900  | 230/460     | 254T  | YC5E4B         | \$4,010 | DS-3CX          | 1.15 | 25.0              | 310            | 85.5           | 17.5/8.7       | NNP,LA |
| 7 1/2 | 3600 | 230/460     | 213T  | YC7P1B         | \$1,683 | DS-3CX          | 1.15 | 20.0              | 156            | 89.5           | 18.6/9.3       |        |
|       | 1800 | 230/460     | 213T  | YC7P2B         | \$1,757 | DS-3CX          | 1.00 | 20.0              | 160            | 91.7           | 18.6/9.3       |        |
|       | 1200 | 230/460     | 254T  | YC7P3B         | \$2,919 | DS-3CX          | 1.00 | 25.0              | 300            | 91.0           | 18.8/9.4       |        |
|       | 900  | 230/460     | 256T  | YC7E4B         | \$4,943 | DS-3CX          | 1.15 | 25.0              | 375            | 85.5           | 23.6/11.8      | NNP,LA |
| 10    | 3600 | 230/460     | 215T  | YC10P1B        | \$2,129 | DS-3CX          | 1.00 | 20.0              | 175            | 90.2           | 23.6/11.8      |        |
|       | 1800 | 230/460     | 215T  | YC10P2B        | \$2,084 | DS-3CX          | 1.15 | 20.0              | 194            | 91.7           | 23.9/12        |        |
|       | 1200 | 230/460     | 256T  | YC10P3B        | \$3,804 | DS-3CX          | 1.15 | 25.0              | 320            | 91.0           | 24.8/12.4      |        |
|       | 900  | 230/460     | 284T  | YC10E4B        | \$6,027 | DS-3CX          | 1.15 | 27.4              | 380            | 88.5           | 28.5/14.3      | NNP,LA |
| 15    | 3600 | 230/460     | 254T  | YC15P1B        | \$2,851 | DS-3CX          | 1.15 | 25.0              | 320            | 91.0           | 35/17.5        |        |
|       | 1800 | 230/460     | 254T  | YC15P2B        | \$2,735 | DS-3CX          | 1.15 | 25.0              | 316            | 92.4           | 37/18.3        |        |
|       | 1200 | 230/460     | 284T  | YC15P3B        | \$4,714 | DS-3CX          | 1.15 | 27.4              | 390            | 91.7           | 37/18.3        |        |
| 20    | 3600 | 230/460     | 256T  | YC20P1B        | \$3,656 | DS-3CX          | 1.00 | 25.0              | 375            | 91.0           | 46/23.1        |        |
|       | 1800 | 230/460     | 256T  | YC20P2B        | \$3,323 | DS-3CX          | 1.00 | 25.0              | 375            | 93.0           | 48/23.8        |        |
|       | 1200 | 230/460     | 286T  | YC20P3B        | \$5,563 | DS-3CX          | 1.15 | 27.4              | 458            | 91.7           | 49/24.4        |        |
|       | 900  | 230/460     | 324T  | YC20E4B        | \$9,400 | DS-3CX          | 1.15 | 30.7              | 550            | 89.5           | 55/27.3        | NNP,LA |

Note 13 Steel Frame Construction  
Note LA Limited Availability  
Note NNP Non-NEMA<sup>®†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location EMA<sup>†</sup> Premium Efficient – IE3, Single Label, CORRO-DUTY®

(continued)


**NEMA**  
Premium

 FLC,  
LCE

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 25  | 3600 | 230/460 | 284TS | YC25P1BS       | \$4,457  | DS-3CX          | 1.15 | 26.0              | 350            | 91.7           | 57/28.7        |        |
|     | 1800 | 230/460 | 284T  | YC25P2B        | \$3,981  | DS-3CX          | 1.15 | 27.4              | 150            | 93.6           | 58/28.9        |        |
|     | 1200 | 230/460 | 324T  | YC25P3B        | \$6,956  | DS-3CX          | 1.15 | 30.7              | 575            | 93.0           | 61/31          |        |
|     | 900  | 230/460 | 326T  | YC25E4B        | \$10,908 | DS-3CX          | 1.15 | 30.7              | 645            | 90.2           | 68/34          | NNP,LA |
| 30  | 3600 | 230/460 | 286TS | YC30P1BS       | \$4,835  | DS-3CX          | 1.00 | 26.0              | 410            | 91.7           | 69/34          |        |
|     | 1800 | 230/460 | 286T  | YC30P2B        | \$4,671  | DS-3CX          | 1.15 | 27.4              | 433            | 93.6           | 69/34          |        |
|     | 1200 | 230/460 | 326T  | YC30P3B        | \$8,236  | DS-3CX          | 1.00 | 30.7              | 685            | 93.0           | 74/37          |        |
| 40  | 3600 | 230/460 | 324TS | YC40P1BS       | \$6,466  | DS-3CX          | 1.15 | 29.2              | 550            | 92.4           | 90/45          |        |
|     | 1800 | 230/460 | 324T  | YC40P2B        | \$6,176  | DS-3CX          | 1.15 | 30.7              | 590            | 94.1           | 90/45          |        |
|     | 1200 | 230/460 | 364T  | YC40P3B        | \$10,863 | DS-3CX          | 1.15 | 33.1              | 725            | 94.1           | 92/46          |        |
| 50  | 3600 | 230/460 | 326TS | YC50P1BS       | \$8,520  | DS-3CX          | 1.00 | 29.2              | 640            | 93.0           | 114/57         |        |
|     | 1800 | 230/460 | 326T  | YC50P2B        | \$7,639  | DS-3CX          | 1.15 | 30.7              | 650            | 94.5           | 112.0/56.0     |        |
|     | 1200 | 230/460 | 365T  | YC50P3B        | \$12,414 | DS-3CX          | 1.00 | 33.1              | 950            | 94.1           | 115/58         |        |
| 60  | 3600 | 230/460 | 364TS | YC60P1BS       | \$12,381 | DS-3CX          | 1.15 | 30.9              | 750            | 93.6           | 136/68         |        |
|     | 1800 | 230/460 | 364T  | YC60P2B        | \$11,342 | DS-3CX          | 1.15 | 33.1              | 810            | 95.0           | 136/68         |        |
|     | 1200 | 230/460 | 404T  | YC60P3B        | \$14,143 | DS-3CX          | 1.00 | 12.3              | 1100           | 94.5           | 139/70         |        |
| 75  | 3600 | 230/460 | 365TS | YC75P1BS       | \$14,435 | DS-3CX          | 1.00 | 30.9              | 850            | 93.6           | 166/83         |        |
|     | 1800 | 230/460 | 365T  | YC75P2B        | \$14,076 | DS-3CX          | 1.00 | 33.1              | 850            | 95.4           | 169/84         |        |
|     | 1200 | 230/460 | 405T  | YC75P3B        | \$17,169 | DS-3CX          | 1.15 | 13.8              | 1200           | 94.5           | 177.0/88.0     |        |
| 100 | 1800 | 230/460 | 405T  | YC100P2B       | \$17,179 | DS-3CX          | 1.15 | 13.8              | 1244           | 95.4           | 225/113        |        |

Note LA Limited Availability

Note NNP Non-NEMA<sup>†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# Definite Purpose Automotive Duty U Frame Premium Efficient Footed



JDEN,  
JDE

## APPLICATIONS:

For use in automotive and process industries where "U" Frame sizes are specified. Built to meet GM7EH, Ford EM-1 and Chrysler NPEM-105 specifications.

## FEATURES:

- Class F Insulation, 60°C Rise At Full Load
- Cast Iron Frame & End Brackets (180 Frame & Larger)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 1.15 Service Factor @ 40°C; 1.0 Service Factor @ 65°C Ambient, NEMA® Design B On 60 Hertz Sine Wave Power
- Regreasable Double Shielded Bearings w/"Straight-Through" Lube System (180 Frame & Up), Sealed Bearings on 56 Frame
- 85 dBA Max Sound Power Level
- Precision Balance (< 0.075 In/Sec Vib.), Lifting Provisions 180 Frame & Up
- Oversized Diagonally Split Conduit Box w/Lead Positioning Gasket (180 Frame & Up)
- Steel Fan Cover

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|---------------|----------------|----------------|--------|
| 1     | 1800 | 460     | 182   | A1P2C          | \$1,049 | DS-3ADE         | 1.15 | 13.1              | 85            | 88.5           | 1.4            | 28     |
|       | 1200 | 460     | 184   | A1P3C          | \$1,281 | DS-3ADE         | 1.15 | 13.1              | 97            | 87.5           | 1.6            | 28     |
| 1 1/2 | 3600 | 460     | 182   | A32P1C         | \$896   | DS-3ADE         | 1.15 | 15.0              | 75            | 82.5           | 2.1            | NNP,LA |
|       | 1800 | 460     | 184   | A32P2C         | \$1,123 | DS-3ADE         | 1.15 | 13.1              | 146           | 89.5           | 2              | 28     |
|       | 1200 | 460     | 184   | A32P3C         | \$1,413 | DS-3ADE         | 1.15 | 15.0              | 111           | 88.5           | 2.3            |        |
| 2     | 3600 | 460     | 184   | A2P1C          | \$990   | DS-3ADE         | 1.15 | 15.0              | 85            | 84.0           | 2.7            | NNP,LA |
|       | 1800 | 460     | 184   | A2P2C          | \$1,184 | DS-3ADE         | 1.15 | 15.0              | 105           | 90.2           | 2.6            |        |
|       | 1200 | 460     | 213   | A2P3C          | \$1,566 | DS-3ADE         | 1.15 | 19.6              | 158           | 90.2           | 3              |        |
| 3     | 3600 | 460     | 184   | A3P1C          | \$1,123 | DS-3ADE         | 1.15 | 15.0              | 100           | 85.5           | 4              | NNP,LA |
|       | 1800 | 460     | 213   | A3P2C          | \$1,361 | DS-3ADE         | 1.15 | 19.6              | 93            | 91.7           | 3.8            |        |
|       | 1200 | 460     | 215   | A3P3C          | \$1,938 | DS-3ADE         | 1.15 | 19.6              | 300           | 90.2           | 4.3            |        |
|       | 900  | 460     | 254U  | A3P4C          | \$2,452 | DS-3ADE         | 1.15 | 25.0              | 300           | 85.5           | 5              |        |
| 5     | 3600 | 460     | 213   | A5P1C          | \$1,334 | DS-3ADE         | 1.15 | 19.6              | 143           | 87.5           | 6.6            | NNP,LA |
|       | 1800 | 460     | 215   | A5P2C          | \$1,803 | DS-3ADE         | 1.15 | 19.6              | 166           | 92.4           | 6              |        |
|       | 1200 | 460     | 254U  | A5P3C          | \$2,698 | DS-3ADE         | 1.15 | 25.0              | 300           | 91.0           | 6.4            |        |
|       | 900  | 460     | 256U  | A5P4C          | \$3,314 | DS-3ADE         | 1.15 | 25.0              | 340           | 86.5           | 7.7            |        |
| 7 1/2 | 3600 | 460     | 215   | A7P1C          | \$1,622 | DS-3ADE         | 1.15 | 19.6              | 160           | 88.5           | 9.3            | NNP,LA |
|       | 1800 | 460     | 254U  | A7P2C          | \$2,371 | DS-3ADE         | 1.15 | 25.0              | 300           | 93.0           | 8.9            |        |
|       | 1200 | 460     | 256U  | A7P3C          | \$3,448 | DS-3ADE         | 1.15 | 25.0              | 340           | 91.7           | 9.2            |        |
|       | 900  | 460     | 284U  | A7P4C          | \$4,228 | DS-3ADE         | 1.15 | 27.3              | 380           | 87.5           | 11.1           |        |
| 10    | 3600 | 460     | 254U  | A10P1C         | \$1,942 | DS-3ADE         | 1.15 | 25.0              | 300           | 87.5           | 12.3           | NNP,LA |
|       | 1800 | 460     | 256U  | A10P2C         | \$2,881 | DS-3ADE         | 1.15 | 25.0              | 340           | 93.6           | 11.7           |        |
|       | 1200 | 460     | 284U  | A10P3C         | \$4,226 | DS-3ADE         | 1.15 | 27.3              | 380           | 91.7           | 12.1           |        |
|       | 900  | 460     | 286U  | A10P4C         | \$4,970 | DS-3ADE         | 1.15 | 27.3              | 400           | 88.5           | 14.4           | NNP,LA |
| 15    | 3600 | 460     | 256U  | A15P1C         | \$2,474 | DS-3ADE         | 1.15 | 25.0              | 340           | 90.2           | 17.7           | NNP,LA |
|       | 1800 | 460     | 284U  | A15P2C         | \$3,957 | DS-3ADE         | 1.15 | 27.3              | 380           | 93.6           | 17.4           |        |
|       | 1200 | 460     | 324U  | A15P3C         | \$5,690 | DS-3ADE         | 1.15 | 30.9              | 460           | 93.0           | 18.5           |        |
|       | 900  | 460     | 326U  | A15P4C         | \$6,608 | DS-3ADE         | 1.15 | 30.9              | 510           | 88.5           | 20.5           | NNP,LA |
| 20    | 3600 | 460     | 286U  | A20P1C         | \$3,365 | DS-3ADE         | 1.15 | 27.3              | 400           | 91.0           | 23.2           |        |
|       | 1800 | 460     | 286U  | A20P2C         | \$4,860 | DS-3ADE         | 1.15 | 27.3              | 362           | 93.6           | 22.7           |        |
|       | 1200 | 460     | 326U  | A20P3C         | \$6,954 | DS-3ADE         | 1.15 | 30.9              | 510           | 93.0           | 24.5           |        |
|       | 900  | 460     | 364U  | A20P4C         | \$8,008 | DS-3ADE         | 1.15 | 33.1              | 744           | 90.2           | 25.7           |        |
| 25    | 3600 | 460     | 324US | A25P1CS        | \$4,317 | DS-3ADE         | 1.15 | 30.9              | 460           | 91.0           | 29.1           | NNP,LA |
|       | 1800 | 460     | 324U  | A25P2C         | \$6,083 | DS-3ADE         | 1.15 | 30.9              | 460           | 93.6           | 28.4           |        |
|       | 1200 | 460     | 364U  | A25P3C         | \$8,396 | DS-3ADE         | 1.15 | 33.1              | 745           | 94.1           | 29             |        |
|       | 900  | 460     | 365U  | A25P4C         | \$9,387 | DS-3ADE         | 1.15 | 33.1              | 920           | 89.5           | 32             | NNP,LA |

Note 28 TENV Enclosure

Note LA Limited Availability

Note NNP Non-NEMA® Premium

† All marks shown within this document are properties of their respective owners.



GENERAL  
PURPOSE  
UNIMOUNT<sup>®</sup>

# Definite Purpose Automotive Duty U Frame Premium Efficient Footed

JDEN,  
JDE

(continued)

| HP  | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List     | Discount<br>Symbol | SF   | "C" Dim.<br>(inches) | Ship Wt<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes  |
|-----|--------------------|---------|-------|-------------------|----------|--------------------|------|----------------------|------------------|-------------------|-------------------|--------|
| 30  | 3600               | 460     | 326US | A30P1CS           | \$5,207  | DS-3ADE            | 1.15 | 28.6                 | 510              | 91.0              | 35                | NNP,LA |
|     | 1800               | 460     | 326U  | A30P2C            | \$7,107  | DS-3ADE            | 1.15 | 30.9                 | 510              | 94.5              | 34                |        |
|     | 1200               | 460     | 365U  | A30P3C            | \$9,501  | DS-3ADE            | 1.15 | 33.1                 | 862              | 94.1              | 35                |        |
| 40  | 3600               | 460     | 364US | A40P1CS           | \$6,796  | DS-3ADE            | 1.15 | 30.4                 | 880              | 91.7              | 46                | NNP,LA |
|     | 1800               | 460     | 364U  | A40P2C            | \$9,370  | DS-3ADE            | 1.15 | 33.1                 | 880              | 95.0              | 45                |        |
|     | 1200               | 460     | 404U  | A40P3C            | \$12,237 | DS-3ADE            | 1.15 | 37.5                 | 1300             | 94.1              | 47                |        |
| 50  | 3600               | 460     | 365US | A50P1CS           | \$8,579  | DS-3ADE            | 1.15 | 30.4                 | 700              | 92.4              | 57                | NNP,LA |
|     | 1800               | 460     | 365U  | A50P2C            | \$10,992 | DS-3ADE            | 1.15 | 33.1                 | 700              | 95.4              | 56                |        |
|     | 1200               | 460     | 405U  | A50P3C            | \$14,137 | DS-3ADE            | 1.15 | 37.5                 | 1200             | 94.5              | 58                |        |
| 60  | 1800               | 460     | 405U  | A60P2C            | \$13,649 | DS-3ADE            | 1.15 | 37.5                 | 1164             | 95.0              | 68                |        |
|     | 1200               | 460     | 444U  | A60P3C            | \$16,597 | DS-3ADE            | 1.15 | 45.9                 | 1400             | 95.0              | 72                |        |
| 75  | 1800               | 460     | 444U  | A75P2C            | \$16,834 | DS-3ADE            | 1.15 | 45.9                 | 1550             | 95.0              | 83                |        |
|     | 1200               | 460     | 445U  | A75P3C            | \$19,679 | DS-3ADE            | 1.15 | 45.9                 | 1210             | 94.5              | 89                |        |
| 100 | 1800               | 460     | 445U  | A100P2C           | \$20,925 | DS-3ADE            | 1.15 | 45.9                 | 1661             | 95.4              | 111               |        |

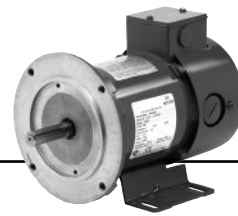
GENERAL PURPOSE  
C-FACEGENERAL PURPOSE  
HOSTILE DUTYGENERAL PURPOSE  
CORRO-DUTY<sup>®</sup>GENERAL PURPOSE  
841 PLUS<sup>®</sup>GENERAL PURPOSE  
OPEN DRIPPROOFGENERAL PURPOSE  
HAZARDOUS  
LOCATIONGENERAL PURPOSE  
AUTOMOTIVE DUTYCOOLING TOWER  
DUTYHAZARDOUS  
LOCATIONC-FACE  
MOTORSVARIABLE  
SPEED MOTORS  
AND DRIVES

Note 28 TENV Enclosure  
 Note LA Limited Availability  
 Note NNP Non-NEMA<sup>®</sup> Premium

† All marks shown within this document are properties of their respective owners.



# Definite Purpose Direct Current Permanent Magnet



PM, SWD

## APPLICATIONS:

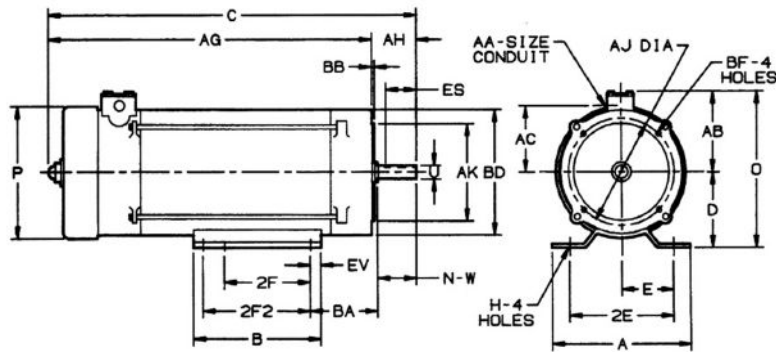
For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

## FEATURES:

- Totally Enclosed Fan Cooled / Totally Enclosed Non Vent
- NEMA® C-Face
- Removable Feet On Rigid Base Units
- 20:1 Constant Torque Speed Range
- 40°C Ambient
- Two Armature Leads & No Field Connections Are Required

| HP  | Base Speed | Top Speed | Frame | Armature Volts | Catalog Number | Type | List  | Discount Symbol | Ship Wt. (lbs.) | Notes |
|-----|------------|-----------|-------|----------------|----------------|------|-------|-----------------|-----------------|-------|
| 1/4 | 1750       | 2050      | 56C   | 90             | G636           | PM   | \$691 | DS-4A           | 19              |       |
| 1/3 | 1750       | 2050      | 56C   | 90             | G637           | PM   | \$732 | DS-4A           | 24              |       |
| 1/2 | 1750       | 2050      | 56C   | 180            | G641           | PM   | \$818 | DS-4A           | 24              |       |
|     | 1750       | 2050      | 56C   | 90             | G638           | PM   | \$818 | DS-4A           | 23              |       |
| 3/4 | 1750       | 2050      | 56C   | 180            | G642           | PM   | \$992 | DS-4A           | 27              |       |
|     | 1750       | 2050      | 56C   | 90             | G639           | PM   | \$992 | DS-4A           | 28              |       |

## DC Motor Dimensions - Permanent Magnet Motor, Totally Enclosed Fan



| A     | D     | E      | 2E    | 2F | H     | N-W   | U-0.0005 | AA  | AJ    | AK    | BA    | BD    | BF     | ES MIN | SQ KEY |
|-------|-------|--------|-------|----|-------|-------|----------|-----|-------|-------|-------|-------|--------|--------|--------|
| 6-1/2 | 3-1/2 | 2-7/16 | 4-7/8 | 3  | 11/32 | 1-7/8 | 5/8      | 1/2 | 5-7/8 | 4-1/2 | 2-3/4 | 6-1/2 | 3-8/16 | 3/16   | 3/16   |

| M/N  | HP  | ENCLOSURE | B       | C        | O     | P*     | AB    | AC      | AG      | AH     | BB   | EV    |
|------|-----|-----------|---------|----------|-------|--------|-------|---------|---------|--------|------|-------|
| G636 | 1/4 | TEFC      | 3-15/16 | 10-15/16 | 7-1/2 | 5-1/2  | 4     | 3       | 8-7/8   | 2-3/32 | 5/32 | 15/32 |
| G637 | 1/3 | TEFC      | 3-15/16 | 11-29/32 | 7-1/2 | 5-1/2  | 4     | 3       | 9-27/32 | 2-3/32 | 5/32 | 15/32 |
| G638 | 1/2 | TEFC      | 3-15/16 | 11-29/32 | 7-1/2 | 5-1/2  | 4     | 3       | 9-27/32 | 2-3/32 | 5/32 | 15/32 |
| G641 | 1/2 | TEFC      | 3-15/16 | 11-29/32 | 7-1/2 | 5-1/2  | 4     | 3       | 9-27/32 | 2-3/32 | 5/32 | 15/32 |
| G639 | 3/4 | TEFC      | 3-15/16 | 13-3/32  | 7-1/2 | 5-1/2  | 4     | 3       | 11-1/32 | 2-3/32 | 5/32 | 15/32 |
| G642 | 3/4 | TEFC      | 3-15/16 | 13-3/32  | 7-1/2 | 5-1/2  | 4     | 3       | 11-1/32 | 2-3/32 | 5/32 | 15/32 |
| G640 | 1   | TEFC      | 4-1/32  | 14-7/16  | 8-3/4 | 6-3/32 | 5-1/4 | 3-27/32 | 12-3/8  | 2-1/16 | 1/8  | 1/2   |
| G643 | 1   | TEFC      | 4-1/32  | 14-7/16  | 8-3/4 | 6-3/32 | 5-1/4 | 3-27/32 | 12-3/8  | 2-1/16 | 1/8  | 1/2   |

| D     | E     | 2E    | 2F | 2F2 | U-0.0005 | N-W   | AA  | AH    | AJ    | AK    | BB  | BD    | BF     | EV  | SQ KEY |
|-------|-------|-------|----|-----|----------|-------|-----|-------|-------|-------|-----|-------|--------|-----|--------|
| 3-1/2 | 2-3/4 | 5-1/2 | 4  | 5   | 7/8      | 2-1/4 | 1/2 | 2-1/8 | 5-7/8 | 4-1/2 | 1/8 | 6-1/2 | 3-8/16 | 1/2 | 3/16   |

| FRAME     | M/N  | HP    | A     | B      | C        | H     | O     | P      | AB    | AC      | AG       | BA    | ES      |
|-----------|------|-------|-------|--------|----------|-------|-------|--------|-------|---------|----------|-------|---------|
| 143/145TC | G644 | 1-1/2 | 6-7/8 | 6-1/32 | 16-15/32 | 11/32 | 8-3/4 | 6-3/32 | 5-1/4 | 3-27/32 | 14-11/32 | 2-1/4 | 3-27/32 |

Dimension "D" will never be exceeded, but may vary from values shown.  
When exact dimensions are required, shims up to 1/32" may be necessary.  
All rough casting dimensions may vary by 1/4" due to casting variations.

\*Largest motor width. All dimensions in inches.

† All marks shown within this document are properties of their respective owners.



GENERAL PURPOSE UNIMOUNT  
GENERAL PURPOSE C-FACE  
GENERAL PURPOSE HOSTILE DUTY  
GENERAL PURPOSE CORRO-DUTY  
GENERAL PURPOSE 841 PLUS  
GENERAL PURPOSE OPEN DRIPPROOF  
GENERAL PURPOSE HAZARDOUS LOCATION  
GENERAL PURPOSE AUTOMOTIVE DUTY PERM. MAG. DC  
COOLING-TOWER DUTY  
HAZARDOUS LOCATION  
C-FACE MOTORS  
VARIABLE SPEED MOTORS AND DRIVES

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# Cooling Tower Duty Motors

For use in Cooling Tower, Evaporative Condenser, and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.



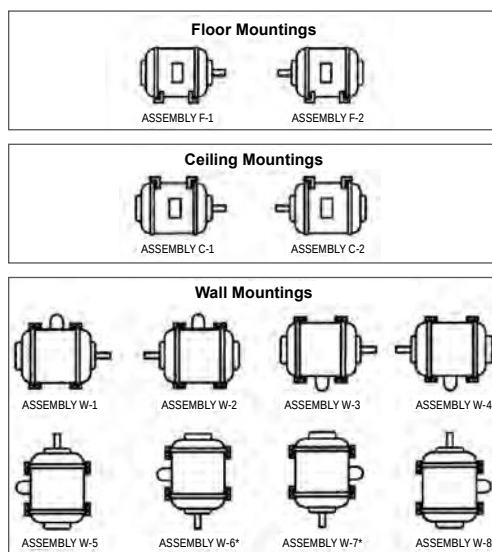
Many of Nidec Motor Corporation's Premium Efficient Cooling Tower motors are stocked for you. Refer to pages 56 and 57.

Stocked motors have the following conversion options: Space Heaters, Thermistors, Shaft Grounding, and Assembly Positions. Stock motors can ship immediately! Conversion orders can ship within 3 days!

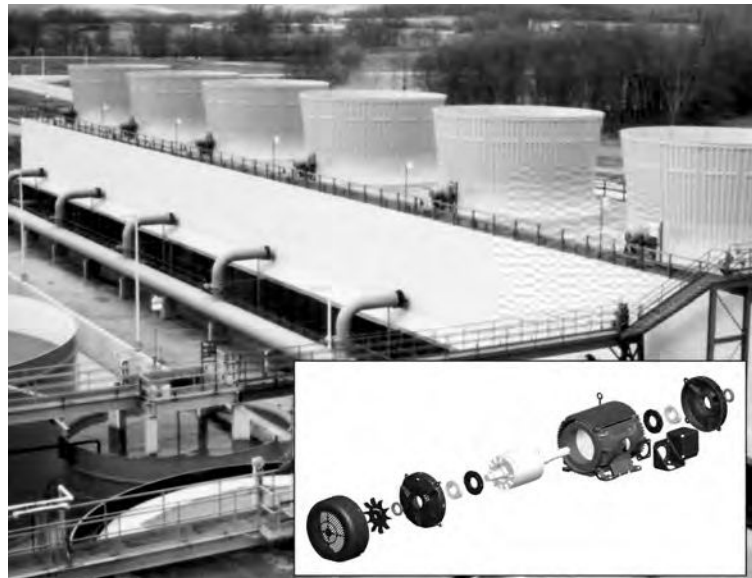
## Features & Benefits:

- All single speed Premium Efficient models meet NEMA<sup>®†</sup> Premium efficiency levels
- Thousands of configurations to choose from
- VBXX seal installed on "wet" end for Premium Efficient motors
- Rotor balance better than .08 in/sec on Premium Efficient motors
- Meets IEC 34-5 Classification IP55
- Inverter Duty & Two-speed models help customers meet ASHRAE Standard 90.1

## Motor Mounting Assembly Guide:



\* W6 and W7 available on Totally Enclosed, Air Over Only (TEAO)



**Need something special? Customization is still available to you via Nidec's Engineer-To-Order (ETO) process. U.S. MOTORS<sup>®</sup> brands make it easy to create the Cooling Tower Motor you need.**

**Step 1:** Order by Horsepower, RPM, Voltage, and Frame Size from the catalog price page.

### For Example:

2 HP, 4 Pole, 200 Volt, Inverter Duty Cooling Tower Motor,  
Catalog Number: HW2V2H

**Step 2:** Determine if you need optional accessories. Optional Accessories Include: Space Heaters, Thermistors and Shaft Grounding. List price adders are determined by frame size.

### For Example:

HW2V2H is a 145 frame.

List price adder for the space heater would be \$263.

### Catalog Example: HW2V2H

### List Price

|                                     |                |
|-------------------------------------|----------------|
| Base Catalog Model with F2 Assembly | \$754          |
| Space Heater Adder (145 Frame)      | \$263          |
| <b>Total List Price:</b>            | <b>\$1,017</b> |

**Step 3:** Apply your discount symbol multiplier for this product for your net price!

<sup>†</sup> All marks shown within this document are properties of their respective owners.

# Stock Cooling Tower Duty Three Phase, TEAO & TEFC

## Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

### APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

### FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA®† MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Inverter Compatible: Exceeds NEMA®† MG-1 Part 31 (10:1 Variable Torque)
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives
- Refer to Page 69 for Minimum Air Velocity Requirements

### ORDERING INFORMATION:

Options below available from Southaven Distribution Center ONLY

**Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.**

| Options                    | Frame Size |       |       |       |        |        |        |        |        |
|----------------------------|------------|-------|-------|-------|--------|--------|--------|--------|--------|
|                            | 140        | 180   | 210   | 250   | 280    | 320    | 360    | 400    | 440    |
| Space Heater               | \$322      | \$403 | \$403 | \$596 | \$596  | \$596  | \$596  | \$693  | \$693  |
| Thermistor                 | \$725      | \$725 | \$725 | \$725 | \$725  | \$725  | \$725  | \$725  | \$725  |
| Inpro Motor Grounding Seal | \$750      | \$867 | \$933 | \$983 | \$1033 | \$1167 | \$1217 | \$1300 | \$1550 |
| TEFC W5 or W8 Mounting     | \$89       | \$125 | \$137 | \$174 | \$221  | \$281  | \$310  | \$419  | \$478  |

### Totally Enclosed Air Over (TEAO)

| HP  | RPM  | Volts   | Frame | New Stock Cat# | List Price | Assembly Position | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|------------|-------------------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 2   | 1200 | 230/460 | 184   | HVW2V3E6       | \$1,454    | W6                | DS-3HTS         | 13.7              | 110            | 88.5           | 3.1/6.2        |       |
| 3   | 1800 | 230/460 | 182   | HVW3V2E6       | \$1,206    | W6                | DS-3HTS         | 13.7              | 100            | 89.5           | 3.9/7.9        |       |
|     | 1200 | 230/460 | 213   | HVW3V3E6       | \$2,138    | W6                | DS-3HTS         | 17                | 160            | 90.2           | 4.4/8.7        |       |
| 5   | 1800 | 200     | 184   | HVW5V2H6       | \$1,254    | W6                | DS-3HTS         | 13.7              | 110            | 89.5           | 14.4           |       |
|     | 1800 | 230/460 | 184   | HVW5V2E6       | \$1,254    | W6                | DS-3HTS         | 13.7              | 110            | 89.5           | 6.3/12.5       |       |
|     | 1200 | 230/460 | 215   | HVW5V3E6       | \$2,224    | W6                | DS-3HTS         | 17                | 175            | 90.2           | 7.0/14.0       |       |
| 7.5 | 1800 | 200     | 213   | HVW7V2H6       | \$1,691    | W6                | DS-3HTS         | 17                | 160            | 91.7           | 21.1           |       |
|     | 1800 | 230/460 | 213   | HVW7V2E6       | \$1,691    | W6                | DS-3HTS         | 17                | 160            | 91.7           | 9.2/18.5       |       |
|     | 1200 | 230/460 | 254   | HVW7V3E6       | \$3,049    | W6                | DS-3HTS         | 22.1              | 300            | 91.0           | 9.3/18.6       |       |
| 10  | 1800 | 200     | 215   | HVW10V2H6      | \$1,976    | W6                | DS-3HTS         | 17                | 175            | 91.7           | 27.3           |       |
|     | 1800 | 230/460 | 215   | HVW10V2E6      | \$1,976    | W6                | DS-3HTS         | 17                | 175            | 91.7           | 11.9/23.8      |       |
|     | 1200 | 230/460 | 256   | HVW10V3E6      | \$3,577    | W6                | DS-3HTS         | 22.1              | 340            | 91.7           | 12.3/24.5      |       |
| 15  | 1800 | 200     | 254   | HVW15V2H6      | \$2,814    | W6                | DS-3HTS         | 22.1              | 300            | 92.4           | 42             |       |
|     | 1800 | 230/460 | 254   | HVW15V2E6      | \$2,814    | W6                | DS-3HTS         | 22.1              | 300            | 92.4           | 18.4/37.0      |       |
|     | 1200 | 230/460 | 284   | HVW15V3E6      | \$5,105    | W6                | DS-3HTS         | 24.8              | 380            | 91.7           | 18.6/37.0      |       |
| 20  | 1800 | 200     | 256   | HVW20V2H6      | \$3,195    | W6                | DS-3HTS         | 22.1              | 340            | 93.0           | 54             |       |
|     | 1800 | 230/460 | 256   | HVW20V2E6      | \$3,195    | W6                | DS-3HTS         | 22.1              | 340            | 93.0           | 23.7/47.0      |       |
|     | 1200 | 230/460 | 286   | HVW20V3E6      | \$5,809    | W6                | DS-3HTS         | 24.8              | 410            | 91.7           | 24.4/49.0      |       |
| 25  | 1800 | 230/460 | 284   | HVW25V2E6      | \$4,322    | W6                | DS-3HTS         | 24.8              | 380            | 93.6           | 29.8/60.0      |       |
|     | 1200 | 230/460 | 324   | HVW25V3E6      | \$7,867    | W6                | DS-3HTS         | 27.3              | 600            | 93.0           | 29.3/59.0      |       |
| 30  | 1800 | 230/460 | 286   | HVW30V2E6      | \$4,551    | W6                | DS-3HTS         | 24.8              | 410            | 93.6           | 34.0/69.0      |       |
|     | 1200 | 230/460 | 326   | HVW30V3E6      | \$8,290    | W6                | DS-3HTS         | 27.3              | 625            | 93.0           | 35.0/70.0      |       |
| 40  | 1800 | 230/460 | 324   | HVW40V2E6      | \$5,747    | W6                | DS-3HTS         | 27.3              | 600            | 94.1           | 46             |       |
|     | 1200 | 230/460 | 364   | HVW40V3E6      | \$10,422   | W6                | DS-3HTS         | 29.4              | 740            | 94.1           | 46.0/93.0      |       |

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# Stock Cooling Tower Duty Three Phase, TEAO & TEFC

## Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

### Totally Enclosed Air Over (TEAO)

| HP  | RPM  | Volts   | Frame | New Stock Cat# | List Price | Assembly Position | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|------------|-------------------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 50  | 1800 | 230/460 | 326   | HVW50V2E6      | \$6,661    | W6                | DS-3HTS         | 27.3              | 625            | 94.5           | 56.0/112.0     |       |
|     | 1200 | 230/460 | 365   | HVW50V3E6      | \$12,111   | W6                | DS-3HTS         | 29.4              | 910            | 94.1           | 58.0/116.0     |       |
| 60  | 1800 | 230/460 | 364   | HVW60V2E6      | \$8,855    | W6                | DS-3HTS         | 29.4              | 740            | 95.0           | 69/137         |       |
|     | 1200 | 230/460 | 404   | HVW60V3E6      | \$16,229   | W6                | DS-3HTS         | 33.9              | 1160           | 94.5           | 70/141         |       |
| 75  | 1800 | 230/460 | 365   | HVW75V2E6      | \$10,227   | W6                | DS-3HTS         | 29.4              | 910            | 95.4           | 84/169         |       |
|     | 1200 | 230/460 | 405   | HVW75V3E6      | \$18,766   | W6                | DS-3HTS         | 33.9              | 1180           | 94.5           | 87/174         |       |
| 100 | 1800 | 230/460 | 405   | HVW100V2E6     | \$15,250   | W6                | DS-3HTS         | 33.9              | 1180           | 95.4           | 113/225        |       |

### Totally Enclosed Fan Cooled (TEFC)

| HP  | RPM  | Volts   | Frame | New Stock Cat# | List Price | Assembly Position | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|------------|-------------------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 2   | 1800 | 230/460 | 145   | HW2V2E2        | \$698      | F2                | DS-3HTS         | 13                | 70             | 86.5           | 2.8/5.7        |       |
|     | 1200 | 230/460 | 184   | HW2V3E2        | \$1,290    | F2                | DS-3HTS         | 15.5              | 110            | 88.5           | 3.1/6.2        |       |
| 3   | 1800 | 200     | 182   | HW3V2H2        | \$1,050    | F2                | DS-3HTS         | 15.5              | 100            | 89.5           | 9.2            |       |
|     | 1800 | 230/460 | 182   | HW3V2E2        | \$1,050    | F2                | DS-3HTS         | 15.5              | 100            | 89.5           | 3.9/7.9        |       |
|     | 1800 | 575     | 182   | HW3V2G2        | \$1,050    | F2                | DS-3HTS         | 15.5              | 100            | 89.5           | 3.2            |       |
|     | 1200 | 230/460 | 213   | HW3V3E2        | \$1,942    | F2                | DS-3HTS         | 19.2              | 160            | 90.2           | 4.4/8.7        |       |
| 5   | 1800 | 200     | 184   | HW5V2H2        | \$1,095    | F2                | DS-3HTS         | 15.5              | 110            | 89.5           | 14.4           |       |
|     | 1800 | 230/460 | 184   | HW5V2E2        | \$1,095    | F2                | DS-3HTS         | 15.5              | 110            | 89.5           | 6.3/12.5       |       |
|     | 1800 | 575     | 184   | HW5V2G2        | \$1,095    | F2                | DS-3HTS         | 15.5              | 110            | 89.5           | 5              |       |
|     | 1200 | 230/460 | 215   | HW5V3E2        | \$2,026    | F2                | DS-3HTS         | 19.2              | 175            | 90.2           | 7.0/14.0       |       |
| 7.5 | 1800 | 200     | 213   | HW7V2H2        | \$1,509    | F2                | DS-3HTS         | 19.2              | 160            | 91.7           | 21.1           |       |
|     | 1800 | 230/460 | 213   | HW7V2E2        | \$1,509    | F2                | DS-3HTS         | 19.2              | 160            | 91.7           | 9.3/18.6       |       |
|     | 1800 | 575     | 213   | HW7V2G2        | \$1,509    | F2                | DS-3HTS         | 19.2              | 160            | 91.7           | 7.5            |       |
|     | 1200 | 230/460 | 254   | HW7V3E2        | \$2,791    | F2                | DS-3HTS         | 25.3              | 300            | 91.0           | 9.3/18.6       |       |
| 10  | 1800 | 200     | 215   | HW10V2H2       | \$1,786    | F2                | DS-3HTS         | 19.2              | 175            | 91.7           | 27.3           |       |
|     | 1800 | 230/460 | 215   | HW10V2E2       | \$1,786    | F2                | DS-3HTS         | 19.2              | 175            | 91.7           | 11.9/23.8      |       |
|     | 1800 | 575     | 215   | HW10V2G2       | \$1,786    | F2                | DS-3HTS         | 19.2              | 175            | 91.7           | 9.6            |       |
|     | 1200 | 230/460 | 256   | HW10V3E2       | \$3,304    | F2                | DS-3HTS         | 25.3              | 340            | 91.7           | 12.3/24.5      |       |
| 15  | 1800 | 200     | 254   | HW15V2H2       | \$2,563    | F2                | DS-3HTS         | 25.3              | 300            | 92.4           | 42             |       |
|     | 1800 | 230/460 | 254   | HW15V2E2       | \$2,563    | F2                | DS-3HTS         | 25.3              | 300            | 92.4           | 18.4/37.0      |       |
|     | 1800 | 575     | 254   | HW15V2G2       | \$2,563    | F2                | DS-3HTS         | 25.3              | 300            | 92.4           | 14.5           |       |
| 20  | 1800 | 200     | 256   | HW20V2H2       | \$2,932    | F2                | DS-3HTS         | 25.3              | 340            | 93.0           | 54             |       |
|     | 1800 | 230/460 | 256   | HW20V2E2       | \$2,932    | F2                | DS-3HTS         | 25.3              | 340            | 93.0           | 23.7/47.0      |       |
|     | 1800 | 575     | 256   | HW20V2G2       | \$2,932    | F2                | DS-3HTS         | 25.3              | 340            | 93.0           | 19             |       |
| 25  | 1800 | 200     | 284   | HW25V2H2       | \$3,981    | F2                | DS-3HTS         | 27                | 380            | 93.6           | 67             |       |
|     | 1800 | 230/460 | 284   | HW25V2E2       | \$3,981    | F2                | DS-3HTS         | 27                | 380            | 93.6           | 29.8/60.0      |       |
|     | 1800 | 575     | 284   | HW25V2G2       | \$3,981    | F2                | DS-3HTS         | 27                | 380            | 93.6           | 23.3           |       |
| 30  | 1800 | 230/460 | 286   | HW30V2E2       | \$4,203    | F2                | DS-3HTS         | 27                | 440            | 93.6           | 34.0/69.0      |       |
|     | 1800 | 575     | 286   | HW30V2G2       | \$4,203    | F2                | DS-3HTS         | 27                | 440            | 93.6           | 27.6           |       |
| 40  | 1800 | 230/460 | 324   | HW40V2E2       | \$5,307    | F2                | DS-3HTS         | 30.6              | 600            | 94.1           | 46.0/92.0      |       |
|     | 1800 | 575     | 324   | HW40V2G2       | \$5,307    | F2                | DS-3HTS         | 30.6              | 600            | 94.1           | 37             |       |
| 50  | 1800 | 230/460 | 326   | HW50V2E2       | \$6,193    | F2                | DS-3HTS         | 30.6              | 625            | 94.5           | 56.0/112.0     |       |
|     | 1800 | 575     | 326   | HW50V2G2       | \$6,193    | F2                | DS-3HTS         | 30.6              | 625            | 94.5           | 45             |       |
| 60  | 1800 | 230/460 | 364   | HW60V2E2       | \$8,297    | F2                | DS-3HTS         | 33                | 740            | 95.0           | 69.0/137.0     |       |
|     | 1800 | 575     | 364   | HW60V2G2       | \$8,297    | F2                | DS-3HTS         | 33                | 740            | 95.0           | 55             |       |
| 75  | 1800 | 230/460 | 365   | HW75V2E2       | \$9,628    | F2                | DS-3HTS         | 33                | 910            | 95.4           | 84.0/169.0     |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, Inverter Duty 10:1 (6-60 Hz Variable Torque)

## APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

## FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA® MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Inverter Compatible: Exceeds NEMA® MG-1 Part 31 (10:1 Variable Torque)
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives



**Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.**

| Options         | Frame Size |       |       |       |       |         |         |         |         |
|-----------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
|                 | 140        | 180   | 210   | 250   | 280   | 320     | 360     | 400     | 440     |
| Space Heater    | \$263      | \$328 | \$358 | \$490 | \$514 | \$538   | \$561   | \$597   | \$609   |
| Thermistor      | \$585      | \$585 | \$585 | \$585 | \$585 | \$585   | \$585   | \$585   | \$585   |
| Shaft Grounding | \$825      | \$853 | \$879 | \$905 | \$987 | \$1,067 | \$1,191 | \$1,859 | \$2,322 |

**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3. List B: For mounting positions W5 & W8. \***

| HP    | RPM  | Voltage | Frame | Catalog Number | List A  | List B  | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|---------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 2     | 1800 | 200     | 145T  | HW2V2H         | \$754   | \$843   | DS-3HTFT        | 13.1              | 70             | 86.5           | 6.6            |       |
|       | 1800 | 230/460 | 145T  | HW2V2E         | \$698   | \$787   | DS-3HTFT        | 13.1              | 70             | 86.5           | 5.7/2.8        |       |
|       | 1800 | 575     | 145T  | HW2V2G         | \$803   | \$892   | DS-3HTFT        | 13.1              | 70             | 86.5           | 2.3            |       |
|       | 1200 | 200     | 184T  | HW2V3H         | \$1,394 | \$1,519 | DS-3HTFT        | 15.5              | 110            | 88.5           | 7.2            |       |
|       | 1200 | 230/460 | 184T  | HW2V3E         | \$1,290 | \$1,415 | DS-3HTFT        | 15.5              | 110            | 88.5           | 6.2/3.1        |       |
|       | 1200 | 575     | 184T  | HW2V3G         | \$1,484 | \$1,609 | DS-3HTFT        | 15.5              | 110            | 88.5           | 2.5            |       |
| 3     | 1800 | 200     | 182T  | HW3V2H         | \$1,134 | \$1,259 | DS-3HTFT        | 15.5              | 100            | 89.5           | 9.2            |       |
|       | 1800 | 230/460 | 182T  | HW3V2E         | \$1,050 | \$1,175 | DS-3HTFT        | 15.5              | 100            | 89.5           | 7.9/3.9        |       |
|       | 1800 | 575     | 182T  | HW3V2G         | \$1,208 | \$1,333 | DS-3HTFT        | 15.5              | 100            | 89.5           | 3.2            |       |
|       | 1200 | 200     | 213T  | HW3V3H         | \$2,097 | \$2,234 | DS-3HTFT        | 19.1              | 160            | 89.5           | 10.1           |       |
|       | 1200 | 230/460 | 213T  | HW3V3E         | \$1,942 | \$2,079 | DS-3HTFT        | 19.1              | 160            | 90.2           | 8.7/4.4        |       |
|       | 1200 | 575     | 213T  | HW3V3G         | \$2,234 | \$2,371 | DS-3HTFT        | 19.1              | 160            | 89.5           | 3.5            |       |
| 5     | 1800 | 200     | 184T  | HW5V2H         | \$1,183 | \$1,308 | DS-3HTFT        | 15.5              | 110            | 89.5           | 14.4           |       |
|       | 1800 | 230/460 | 184T  | HW5V2E         | \$1,095 | \$1,220 | DS-3HTFT        | 15.5              | 110            | 89.5           | 12.5/6.3       |       |
|       | 1800 | 575     | 184T  | HW5V2G         | \$1,260 | \$1,385 | DS-3HTFT        | 15.5              | 110            | 89.5           | 5.0            |       |
|       | 1200 | 200     | 215T  | HW5V3H         | \$2,188 | \$2,325 | DS-3HTFT        | 19.1              | 175            | 89.5           | 16.3           |       |
|       | 1200 | 230/460 | 215T  | HW5V3E         | \$2,026 | \$2,163 | DS-3HTFT        | 19.1              | 175            | 90.2           | 14.0/7.0       |       |
|       | 1200 | 575V    | 215T  | HW5V3G         | \$2,330 | \$2,467 | DS-3HTFT        | 19.1              | 175            | 90.2           | 5.6            |       |
| 7 1/2 | 1800 | 200     | 213T  | HW7V2H         | \$1,629 | \$1,766 | DS-3HTFT        | 19.1              | 160            | 91.7           | 21.1           |       |
|       | 1800 | 230/460 | 213T  | HW7V2E         | \$1,509 | \$1,646 | DS-3HTFT        | 19.1              | 160            | 91.7           | 18.6/9.3       |       |
|       | 1800 | 575     | 213T  | HW7V2G         | \$1,734 | \$1,871 | DS-3HTFT        | 19.1              | 160            | 91.7           | 7.5            |       |
|       | 1200 | 200     | 254T  | HW7V3H         | \$3,014 | \$3,188 | DS-3HTFT        | 25.5              | 300            | 91.0           | 21.5           |       |
|       | 1200 | 230/460 | 254T  | HW7V3E         | \$2,791 | \$2,965 | DS-3HTFT        | 25.5              | 300            | 91.0           | 18.6/9.3       |       |
|       | 1200 | 575     | 254T  | HW7V3G         | \$3,209 | \$3,383 | DS-3HTFT        | 25.5              | 300            | 91.0           | 7.5            |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, Inverter Duty 10:1 (6-60 Hz Variable Torque)

(continued)



CTI

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3. List B: For mounting positions W5 & W8. \*

| HP | RPM  | Voltage | Frame | Catalog Number | List A   | List B   | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|----|------|---------|-------|----------------|----------|----------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 10 | 1800 | 200     | 215T  | HW10V2H        | \$1,929  | \$2,066  | DS-3HTFT        | 19.1              | 175            | 91.7           | 27.3           |       |
|    | 1800 | 230/460 | 215T  | HW10V2E        | \$1,786  | \$1,923  | DS-3HTFT        | 19.1              | 175            | 91.7           | 23.8/11.9      |       |
|    | 1800 | 575     | 215T  | HW10V2G        | \$2,053  | \$2,190  | DS-3HTFT        | 19.1              | 175            | 91.7           | 9.6            |       |
|    | 1200 | 200     | 256T  | HW10V3H        | \$3,568  | \$3,742  | DS-3HTFT        | 25.5              | 340            | 91.0           | 28.3           |       |
|    | 1200 | 230/460 | 256T  | HW10V3E        | \$3,304  | \$3,478  | DS-3HTFT        | 25.5              | 340            | 91.7           | 24.5/12.3      |       |
|    | 1200 | 575     | 256T  | HW10V3G        | \$3,800  | \$3,974  | DS-3HTFT        | 25.5              | 340            | 91.0           | 9.8            |       |
| 15 | 1800 | 200     | 254T  | HW15V2H        | \$2,769  | \$2,943  | DS-3HTFT        | 25.5              | 300            | 92.4           | 42.0           |       |
|    | 1800 | 230/460 | 254T  | HW15V2E        | \$2,563  | \$2,737  | DS-3HTFT        | 25.5              | 300            | 92.4           | 37.0/18.4      |       |
|    | 1800 | 575     | 254T  | HW15V2G        | \$2,948  | \$3,122  | DS-3HTFT        | 25.5              | 300            | 92.4           | 14.5           |       |
|    | 1200 | 200     | 284T  | HW15V3H        | \$5,122  | \$5,343  | DS-3HTFT        | 27.0              | 380            | 91.7           | 43.0           |       |
|    | 1200 | 230/460 | 284T  | HW15V3E        | \$4,742  | \$4,963  | DS-3HTFT        | 27.0              | 380            | 91.7           | 37.0/18.7      |       |
|    | 1200 | 575     | 284T  | HW15V3G        | \$5,454  | \$5,675  | DS-3HTFT        | 27.0              | 380            | 91.7           | 14.8           |       |
| 20 | 1800 | 200     | 256T  | HW20V2H        | \$3,166  | \$3,340  | DS-3HTFT        | 25.5              | 340            | 93.0           | 54.0           |       |
|    | 1800 | 230/460 | 256T  | HW20V2E        | \$2,932  | \$3,106  | DS-3HTFT        | 25.5              | 340            | 93.0           | 47.0/23.7      |       |
|    | 1800 | 575     | 256T  | HW20V2G        | \$3,372  | \$3,546  | DS-3HTFT        | 25.5              | 340            | 93.0           | 19.0           |       |
|    | 1200 | 200     | 286T  | HW20V3H        | \$5,859  | \$6,080  | DS-3HTFT        | 27.0              | 410            | 91.7           | 56.0           |       |
|    | 1200 | 230/460 | 286T  | HW20V3E        | \$5,425  | \$5,646  | DS-3HTFT        | 27.0              | 410            | 91.7           | 49.0/24.5      |       |
|    | 1200 | 575     | 286T  | HW20V3G        | \$6,239  | \$6,460  | DS-3HTFT        | 27.0              | 410            | 91.7           | 19.6           |       |
| 25 | 1800 | 200     | 284T  | HW25V2H        | \$4,300  | \$4,521  | DS-3HTFT        | 27.0              | 380            | 93.6           | 67.0           |       |
|    | 1800 | 230/460 | 284T  | HW25V2E        | \$3,981  | \$4,202  | DS-3HTFT        | 27.0              | 380            | 93.6           | 60.0/29.8      |       |
|    | 1800 | 575     | 284T  | HW25V2G        | \$4,578  | \$4,799  | DS-3HTFT        | 27.0              | 380            | 93.6           | 23.3           |       |
|    | 1200 | 200     | 324T  | HW25V3H        | \$7,954  | \$8,235  | DS-3HTFT        | 31.6              | 600            | 93.0           | 68.0           |       |
|    | 1200 | 230/460 | 324T  | HW25V3E        | \$7,365  | \$7,646  | DS-3HTFT        | 31.6              | 600            | 93.0           | 59.0/29.4      |       |
|    | 1200 | 575     | 324T  | HW25V3G        | \$8,470  | \$8,751  | DS-3HTFT        | 31.6              | 600            | 93.0           | 23.5           |       |
| 30 | 1800 | 200     | 286T  | HW30V2H        | \$4,540  | \$4,761  | DS-3HTFT        | 27.0              | 410            | 93.6           | 79.0           |       |
|    | 1800 | 230/460 | 286T  | HW30V2E        | \$4,203  | \$4,424  | DS-3HTFT        | 27.0              | 410            | 93.6           | 69.0/34.0      |       |
|    | 1800 | 575     | 286T  | HW30V2G        | \$4,834  | \$5,055  | DS-3HTFT        | 27.0              | 410            | 93.6           | 27.6           |       |
|    | 1200 | 200     | 326T  | HW30V3H        | \$8,398  | \$8,679  | DS-3HTFT        | 31.6              | 625            | 93.0           | 80.0           |       |
|    | 1200 | 230/460 | 326T  | HW30V3E        | \$7,776  | \$8,057  | DS-3HTFT        | 31.6              | 625            | 93.0           | 70.0/35.0      |       |
|    | 1200 | 575     | 326T  | HW30V3G        | \$8,943  | \$9,224  | DS-3HTFT        | 31.6              | 625            | 93.0           | 28.0           |       |
| 40 | 1800 | 200     | 324T  | HW40V2H        | \$5,731  | \$6,012  | DS-3HTFT        | 31.6              | 600            | 94.1           | 105.0          |       |
|    | 1800 | 230/460 | 324T  | HW40V2E        | \$5,307  | \$5,588  | DS-3HTFT        | 31.6              | 600            | 94.1           | 92.0/46.0      |       |
|    | 1800 | 575     | 324T  | HW40V2G        | \$6,102  | \$6,383  | DS-3HTFT        | 31.6              | 600            | 94.1           | 37.0           |       |
|    | 1200 | 200     | 364T  | HW40V3H        | \$10,603 | \$10,913 | DS-3HTFT        | 33.6              | 740            | 94.1           | 107.0          |       |
|    | 1200 | 230/460 | 364T  | HW40V3E        | \$9,818  | \$10,128 | DS-3HTFT        | 33.6              | 740            | 94.1           | 93.0/46.0      |       |
|    | 1200 | 575     | 364T  | HW40V3G        | \$11,290 | \$11,600 | DS-3HTFT        | 33.6              | 740            | 94.1           | 37.0           |       |
| 50 | 1800 | 200     | 326T  | HW50V2H        | \$6,689  | \$6,970  | DS-3HTFT        | 31.6              | 625            | 94.5           | 129.0          |       |
|    | 1800 | 230/460 | 326T  | HW50V2E        | \$6,193  | \$6,474  | DS-3HTFT        | 31.6              | 625            | 94.5           | 112.0/56.0     |       |
|    | 1800 | 575     | 326T  | HW50V2G        | \$7,122  | \$7,403  | DS-3HTFT        | 31.6              | 625            | 94.5           | 45.0           |       |
|    | 1200 | 200     | 365T  | HW50V3H        | \$12,374 | \$12,684 | DS-3HTFT        | 33.6              | 910            | 94.1           | 133.0          |       |
|    | 1200 | 230/460 | 365T  | HW50V3E        | \$11,457 | \$11,767 | DS-3HTFT        | 33.6              | 910            | 94.1           | 116.0/58.0     |       |
|    | 1200 | 575     | 365T  | HW50V3G        | \$13,176 | \$13,486 | DS-3HTFT        | 33.6              | 910            | 94.1           | 46.0           |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, Inverter Duty 10:1 (6-60 Hz Variable Torque)

(continued)



CTI

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3. List B: For mounting positions W5 & W8. \*

| HP  | RPM  | Voltage | Frame | Catalog Number | List A   | List B   | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|----------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 60  | 1800 | 200     | 364T  | HW60V2H        | \$8,961  | \$9,271  | DS-3HTFT        | 33.6              | 740            | 95.0           | 159.0          |       |
|     | 1800 | 230/460 | 364T  | HW60V2E        | \$8,297  | \$8,607  | DS-3HTFT        | 33.6              | 740            | 95.0           | 137.0/69.0     |       |
|     | 1800 | 575     | 364T  | HW60V2G        | \$9,541  | \$9,851  | DS-3HTFT        | 33.6              | 740            | 95.0           | 55.0           |       |
|     | 1200 | 200     | 404T  | HW60V3H        | \$16,577 | \$16,996 | DS-3HTFT        | 37.7              | 1160           | 94.5           | 161.0          |       |
|     | 1200 | 230/460 | 404T  | HW60V3E        | \$15,349 | \$15,768 | DS-3HTFT        | 37.7              | 1160           | 94.5           | 140.0/70.0     |       |
|     | 1200 | 575     | 404T  | HW60V3G        | \$17,652 | \$18,071 | DS-3HTFT        | 37.7              | 1160           | 94.5           | 56.0           |       |
| 75  | 1800 | 200     | 365T  | HW75V2H        | \$10,399 | \$10,709 | DS-3HTFT        | 33.6              | 910            | 95.4           | 194.0          |       |
|     | 1800 | 230/460 | 365T  | HW75V2E        | \$9,628  | \$9,938  | DS-3HTFT        | 33.6              | 910            | 95.4           | 169.0/84.0     |       |
|     | 1800 | 575     | 365T  | HW75V2G        | \$11,073 | \$11,383 | DS-3HTFT        | 33.6              | 910            | 95.4           | 68.0           |       |
|     | 1200 | 200     | 405T  | HW75V3H        | \$19,238 | \$19,657 | DS-3HTFT        | 37.7              | 1180           | 94.5           | 201.0          |       |
|     | 1200 | 230/460 | 405T  | HW75V3E        | \$17,813 | \$18,232 | DS-3HTFT        | 37.7              | 1180           | 94.5           | 173.0/87.0     |       |
|     | 1200 | 575     | 405T  | HW75V3G        | \$20,485 | \$20,904 | DS-3HTFT        | 37.7              | 1180           | 94.5           | 70.0           |       |
| 100 | 1800 | 200     | 405T  | HW100V2H       | \$15,550 | \$15,969 | DS-3HTFT        | 37.7              | 1180           | 95.4           | 260.0          |       |
|     | 1800 | 230/460 | 405T  | HW100V2E       | \$14,399 | \$14,818 | DS-3HTFT        | 37.7              | 1180           | 95.4           | 225.0/113.0    |       |
|     | 1800 | 575     | 405T  | HW100V2G       | \$16,559 | \$16,978 | DS-3HTFT        | 37.7              | 1180           | 95.4           | 90.0           |       |
|     | 1200 | 200     | 444T  | HW100V3H       | \$28,769 | \$29,247 | DS-3HTFT        | 45.4              | 1660           | 95.0           | 284.0          |       |
|     | 1200 | 230/460 | 444T  | HW100V3E       | \$26,639 | \$27,117 | DS-3HTFT        | 45.4              | 1660           | 95.0           | 248.0/124.0    |       |
|     | 1200 | 575     | 444T  | HW100V3G       | \$30,634 | \$31,112 | DS-3HTFT        | 45.4              | 1660           | 95.0           | 99.0           |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 1 Winding



## APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

## FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

**Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.**

| Options         | Frame Size |       |       |       |       |         |         |         |         |
|-----------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
|                 | 140        | 180   | 210   | 250   | 280   | 320     | 360     | 400     | 440     |
| Space Heater    | \$263      | \$328 | \$358 | \$490 | \$514 | \$538   | \$561   | \$597   | \$609   |
| Thermistor      | \$585      | \$585 | \$585 | \$585 | \$585 | \$585   | \$585   | \$585   | \$585   |
| Shaft Grounding | \$825      | \$853 | \$879 | \$905 | \$987 | \$1,067 | \$1,191 | \$1,859 | \$2,322 |

**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. \***

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A  | List B  | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|---------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 2 / 1 1/2      | 1800/900(1)                 | 200     | 145T  | HW2PL9H           | \$1,016 | \$1,105 | DS-3HTFT           | 13.1                 | 70                | 82.5              | 4.1/6.5           |       |
|                | 1800/900(1)                 | 460     | 145T  | HW2PL9C           | \$941   | \$1,030 | DS-3HTFT           | 13.1                 | 70                | 84.0              | 1.8/2.8           |       |
|                | 1800/900(1)                 | 575     | 145T  | HW2PL9G           | \$1,083 | \$1,172 | DS-3HTFT           | 13.1                 | 70                | 84.0              | 1.4/2.2           |       |
|                | 1200/600(1)                 | 200     | 213T  | HW2PL36H          | \$1,658 | \$1,795 | DS-3HTFT           | 19.1                 | 160               | 86.5              | 4.7/7.2           |       |
|                | 1200/600(1)                 | 460     | 213T  | HW2PL36C          | \$1,535 | \$1,672 | DS-3HTFT           | 19.1                 | 160               | 84.0              | 2.0/3.1           |       |
|                | 1200/600(1)                 | 575     | 213T  | HW2PL36G          | \$1,765 | \$1,902 | DS-3HTFT           | 19.1                 | 160               | 86.5              | 1.6/2.5           |       |
| 3 / 3/4        | 1800/900(1)                 | 200     | 182T  | HW3PL9H           | \$1,531 | \$1,656 | DS-3HTFT           | 15.5                 | 100               | 86.5              | 4.0/9.7           |       |
|                | 1800/900(1)                 | 460     | 182T  | HW3PL9C           | \$1,418 | \$1,543 | DS-3HTFT           | 15.5                 | 100               | 85.5              | 1.8/4.5           |       |
|                | 1800/900(1)                 | 575     | 182T  | HW3PL9G           | \$1,630 | \$1,755 | DS-3HTFT           | 15.5                 | 100               | 84.0              | 1.5/3.5           |       |
|                | 1200/600(1)                 | 200     | 215T  | HW3PL36H          | \$2,495 | \$2,632 | DS-3HTFT           | 19.1                 | 175               | 85.5              | 5.3/9.7           |       |
|                | 1200/600(1)                 | 460     | 215T  | HW3PL36C          | \$2,310 | \$2,447 | DS-3HTFT           | 19.1                 | 175               | 85.5              | 2.3/4.2           |       |
|                | 1200/600(1)                 | 575     | 215T  | HW3PL36G          | \$2,656 | \$2,793 | DS-3HTFT           | 19.1                 | 175               | 85.5              | 1.8/3.4           |       |
| 5 / 1 1/4      | 1800/900(1)                 | 200     | 184T  | HW5PL9H           | \$1,597 | \$1,722 | DS-3HTFT           | 15.5                 | 110               | 86.5              | 5.5/16.2          |       |
|                | 1800/900(1)                 | 460     | 184T  | HW5PL9C           | \$1,479 | \$1,604 | DS-3HTFT           | 15.5                 | 110               | 86.5              | 2.6/6.6           |       |
|                | 1800/900(1)                 | 575     | 184T  | HW5PL9G           | \$1,701 | \$1,826 | DS-3HTFT           | 15.5                 | 110               | 86.5              | 2.0/5.2           |       |
|                | 1200/600(1)                 | 200     | 254T  | HW5PL36H          | \$2,603 | \$2,777 | DS-3HTFT           | 25.5                 | 300               | 87.5              | 8.5/17.7          |       |
|                | 1200/600(1)                 | 460     | 254T  | HW5PL36C          | \$2,409 | \$2,583 | DS-3HTFT           | 25.5                 | 300               | 87.5              | 3.5/7.3           |       |
|                | 1200/600(1)                 | 575     | 254T  | HW5PL36G          | \$2,771 | \$2,945 | DS-3HTFT           | 25.5                 | 300               | 87.5              | 2.8/5.9           |       |
| 7 1/2 / 1 7/8  | 1800/900(1)                 | 200     | 213T  | HW7PL9H           | \$2,199 | \$2,336 | DS-3HTFT           | 19.1                 | 160               | 87.5              | 8.9/23.6          |       |
|                | 1800/900(1)                 | 460     | 213T  | HW7PL9C           | \$2,037 | \$2,174 | DS-3HTFT           | 19.1                 | 160               | 88.5              | 3.6/9.5           |       |
|                | 1800/900(1)                 | 575     | 213T  | HW7PL9G           | \$2,342 | \$2,479 | DS-3HTFT           | 19.1                 | 160               | 87.5              | 2.8/7.5           |       |
|                | 1200/600(1)                 | 200     | 256T  | HW7PL36H          | \$3,585 | \$3,759 | DS-3HTFT           | 25.5                 | 340               | 90.2              | 14.9/23.4         |       |
|                | 1200/600(1)                 | 460     | 256T  | HW7PL36C          | \$3,319 | \$3,493 | DS-3HTFT           | 25.5                 | 340               | 90.2              | 7.7/11.0          |       |
|                | 1200/600(1)                 | 575     | 256T  | HW7PL36G          | \$3,816 | \$3,990 | DS-3HTFT           | 25.5                 | 340               | 90.2              | 6.1/8.8           |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 1 Winding



CTE

(continued)

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 10 / 2 1/2     | 1800/900(1)                 | 200     | 215T  | HW10PL9H          | \$2,604  | \$2,741  | DS-3HTFT           | 19.1                 | 175               | 88.5              | 10.8/28.4         |       |
|                | 1800/900(1)                 | 460     | 215T  | HW10PL9C          | \$2,410  | \$2,547  | DS-3HTFT           | 19.1                 | 175               | 89.5              | 4.8/12.5          |       |
|                | 1800/900(1)                 | 575     | 215T  | HW10PL9G          | \$2,772  | \$2,909  | DS-3HTFT           | 19.1                 | 175               | 90.2              | 3.8/9.9           |       |
|                | 1200/600(1)                 | 200     | 284T  | HW10PL36H         | \$4,243  | \$4,464  | DS-3HTFT           | 27.0                 | 380               | 87.5              | 14.5/40.0         |       |
|                | 1200/600(1)                 | 460     | 284T  | HW10PL36C         | \$3,929  | \$4,150  | DS-3HTFT           | 27.0                 | 380               | 89.5              | 5.8/14.8          |       |
|                | 1200/600(1)                 | 575     | 284T  | HW10PL36G         | \$4,517  | \$4,738  | DS-3HTFT           | 27.0                 | 380               | 89.5              | 4.5/11.5          |       |
| 15 / 3 3/4     | 1800/900(1)                 | 200     | 254T  | HW15PL9H          | \$3,737  | \$3,911  | DS-3HTFT           | 25.5                 | 300               | 91.0              | 16.8/43.0         |       |
|                | 1800/900(1)                 | 460     | 254T  | HW15PL9C          | \$3,460  | \$3,634  | DS-3HTFT           | 25.5                 | 300               | 91.0              | 7.7/19.3          |       |
|                | 1800/900(1)                 | 575     | 254T  | HW15PL9G          | \$3,980  | \$4,154  | DS-3HTFT           | 25.5                 | 300               | 91.0              | 6.2/15.4          |       |
|                | 1200/600(1)                 | 200     | 286T  | HW15PL36H         | \$6,090  | \$6,311  | DS-3HTFT           | 27.0                 | 410               | 90.2              | 21.8/43.0         |       |
|                | 1200/600(1)                 | 460     | 286T  | HW15PL36C         | \$5,639  | \$5,860  | DS-3HTFT           | 27.0                 | 410               | 90.2              | 7.6/18.9          |       |
|                | 1200/600(1)                 | 575     | 286T  | HW15PL36G         | \$6,485  | \$6,706  | DS-3HTFT           | 27.0                 | 410               | 91.0              | 10.0/16.0         |       |
| 20 / 5         | 1800/900(1)                 | 200     | 256T  | HW20PL9H          | \$4,275  | \$4,449  | DS-3HTFT           | 25.5                 | 340               | 91.0              | 19.9/56.0         |       |
|                | 1800/900(1)                 | 460     | 256T  | HW20PL9C          | \$3,958  | \$4,132  | DS-3HTFT           | 25.5                 | 340               | 91.0              | 9.1/24.1          |       |
|                | 1800/900(1)                 | 575     | 256T  | HW20PL9G          | \$4,552  | \$4,726  | DS-3HTFT           | 25.5                 | 340               | 91.0              | 7.2/19.2          |       |
|                | 1200/600(1)                 | 200     | 324T  | HW20PL36H         | \$6,967  | \$7,248  | DS-3HTFT           | 30.6                 | 600               | 91.0              | 20.6/55.0         |       |
|                | 1200/600(1)                 | 460     | 324T  | HW20PL36C         | \$6,451  | \$6,732  | DS-3HTFT           | 30.6                 | 600               | 90.2              | 9.1/24.1          |       |
|                | 1200/600(1)                 | 575     | 324T  | HW20PL36G         | \$7,419  | \$7,700  | DS-3HTFT           | 30.6                 | 600               | 89.5              | 7.2/19.5          |       |
| 25 / 6 1/4     | 1800/900(1)                 | 200     | 286T  | HW25PL9H          | \$5,805  | \$6,026  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 25.5/68.0         |       |
|                | 1800/900(1)                 | 460     | 286T  | HW25PL9C          | \$5,375  | \$5,596  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 11.1/29.6         |       |
|                | 1800/900(1)                 | 575     | 286T  | HW25PL9G          | \$6,180  | \$6,401  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 9.0/23.8          |       |
|                | 1200/600(1)                 | 200     | 326T  | HW25PL36H         | \$9,459  | \$9,740  | DS-3HTFT           | 30.6                 | 625               | 91.0              | 34.0/70.0         |       |
|                | 1200/600(1)                 | 460     | 326T  | HW25PL36C         | \$8,759  | \$9,040  | DS-3HTFT           | 30.6                 | 625               | 91.7              | 15.6/30.0         |       |
|                | 1200/600(1)                 | 575     | 326T  | HW25PL36G         | \$10,072 | \$10,353 | DS-3HTFT           | 30.6                 | 625               | 91.7              | 12.1/24.3         |       |
| 30 / 7 1/2     | 1800/900(1)                 | 200     | 324T  | HW30PL9H          | \$6,129  | \$6,410  | DS-3HTFT           | 30.6                 | 600               | 91.7              | 28.7/81.0         |       |
|                | 1800/900(1)                 | 460     | 324T  | HW30PL9C          | \$5,675  | \$5,956  | DS-3HTFT           | 30.6                 | 600               | 92.4              | 12.8/35.0         |       |
|                | 1800/900(1)                 | 575     | 324T  | HW30PL9G          | \$6,525  | \$6,806  | DS-3HTFT           | 30.6                 | 600               | 93.0              | 10.6/28.0         |       |
|                | 1200/600(1)                 | 200     | 364T  | HW30PL36H         | \$9,987  | \$10,297 | DS-3HTFT           | 32.6                 | 740               | 92.4              | 32.0/91.0         |       |
|                | 1200/600(1)                 | 460     | 364T  | HW30PL36C         | \$9,247  | \$9,557  | DS-3HTFT           | 32.6                 | 740               | 92.4              | 14.0/41.0         |       |
|                | 1200/600(1)                 | 575     | 364T  | HW30PL36G         | \$10,634 | \$10,944 | DS-3HTFT           | 32.6                 | 740               | 92.4              | 11.3/33.0         |       |
| 40 / 10        | 1800/900(1)                 | 200     | 326T  | HW40PL9H          | \$7,738  | \$8,019  | DS-3HTFT           | 30.6                 | 625               | 93.0              | 39.0/106.0        |       |
|                | 1800/900(1)                 | 460     | 326T  | HW40PL9C          | \$7,164  | \$7,445  | DS-3HTFT           | 30.6                 | 625               | 93.0              | 16.7/46.0         |       |
|                | 1800/900(1)                 | 575     | 326T  | HW40PL9G          | \$8,239  | \$8,520  | DS-3HTFT           | 30.6                 | 625               | 92.4              | 13.3/37.0         |       |
|                | 1200/600(1)                 | 200     | 364T  | HW40PL36H         | \$12,610 | \$12,920 | DS-3HTFT           | 32.6                 | 740               | 91.7              | 41.0/126.0        |       |
|                | 1200/600(1)                 | 460     | 364T  | HW40PL36C         | \$11,676 | \$11,986 | DS-3HTFT           | 32.6                 | 740               | 91.7              | 18.0/54.0         |       |
|                | 1200/600(1)                 | 575     | 364T  | HW40PL36G         | \$13,427 | \$13,737 | DS-3HTFT           | 32.6                 | 740               | 91.0              | 14.3/43.0         |       |
| 50 / 12 1/2    | 1800/900(1)                 | 200     | 364T  | HW50PL9H          | \$9,030  | \$9,340  | DS-3HTFT           | 32.6                 | 740               | 93.6              | 45.0/136.0        |       |
|                | 1800/900(1)                 | 460     | 364T  | HW50PL9C          | \$8,361  | \$8,671  | DS-3HTFT           | 32.6                 | 740               | 93.6              | 21.3/59.0         |       |
|                | 1800/900(1)                 | 575     | 364T  | HW50PL9G          | \$9,615  | \$9,925  | DS-3HTFT           | 32.6                 | 740               | 93.6              | 15.7/47.0         |       |
|                | 1200/600(1)                 | 200     | 365T  | HW50PL36H         | \$14,716 | \$15,026 | DS-3HTFT           | 33.6                 | 910               | 92.4              | 55.0/144.0        |       |
|                | 1200/600(1)                 | 460     | 365T  | HW50PL36C         | \$13,625 | \$13,935 | DS-3HTFT           | 33.6                 | 910               | 93.0              | 22.9/60.0         |       |
|                | 1200/600(1)                 | 575     | 365T  | HW50PL36G         | \$15,669 | \$15,979 | DS-3HTFT           | 33.6                 | 910               | 92.4              | 18.3/49.0         |       |
| 60 / 15        | 1800/900(1)                 | 200     | 365T  | HW60PL9H          | \$12,096 | \$12,406 | DS-3HTFT           | 33.6                 | 910               | 92.4              | 61.0/169.0        |       |
|                | 1800/900(1)                 | 460     | 365T  | HW60PL9C          | \$11,200 | \$11,510 | DS-3HTFT           | 33.6                 | 910               | 94.1              | 24.9/69.0         |       |
|                | 1800/900(1)                 | 575     | 365T  | HW60PL9G          | \$12,881 | \$13,191 | DS-3HTFT           | 33.6                 | 910               | 94.1              | 20.0/55.0         |       |
|                | 1200/600(1)                 | 200     | 405T  | HW60PL36H         | \$19,713 | \$20,132 | DS-3HTFT           | 37.7                 | 1180              | 93.6              | 63.0/164.0        |       |
|                | 1200/600(1)                 | 460     | 405T  | HW60PL36C         | \$18,252 | \$18,671 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 29.0/72.0         |       |
|                | 1200/600(1)                 | 575     | 405T  | HW60PL36G         | \$20,990 | \$21,409 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 23.0/58.0         |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 1 Winding



(continued)

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 75 / 18 3/4    | 1800/900(1)                 | 200     | 405T  | HW75PL9H          | \$14,038 | \$14,457 | DS-3HTFT           | 37.7                 | 1180              | 93.6              | 69.0/198.0        |       |
|                | 1800/900(1)                 | 460     | 405T  | HW75PL9C          | \$12,998 | \$13,417 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 31.0/86.0         |       |
|                | 1800/900(1)                 | 575     | 405T  | HW75PL9G          | \$14,948 | \$15,367 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 24.3/69.0         |       |
|                | 1200/600(1)                 | 200     | 444T  | HW75PL36H         | \$22,877 | \$23,355 | DS-3HTFT           | 45.4                 | 1660              | 92.4              | 74.0/204.0        |       |
|                | 1200/600(1)                 | 460     | 444T  | HW75PL36C         | \$21,182 | \$21,660 | DS-3HTFT           | 45.4                 | 1660              | 93.0              | 33.0/89.0         |       |
|                | 1200/600(1)                 | 575     | 444T  | HW75PL36G         | \$24,360 | \$24,838 | DS-3HTFT           | 45.4                 | 1660              | 92.4              | 26.4/72.0         |       |
| 100 / 25       | 1800/900(1)                 | 200     | 444T  | HW100PL9H         | \$20,994 | \$21,472 | DS-3HTFT           | 45.4                 | 1660              | 93.6              | 88.0/262.0        |       |
|                | 1800/900(1)                 | 460     | 444T  | HW100PL9C         | \$19,438 | \$19,916 | DS-3HTFT           | 45.4                 | 1660              | 93.6              | 39.0/115.0        |       |
|                | 1800/900(1)                 | 575     | 444T  | HW100PL9G         | \$22,354 | \$22,832 | DS-3HTFT           | 45.4                 | 1660              | 93.6              | 32.0/92.0         |       |
|                | 1200/600(1)                 | 200     | 445T  | HW100PL36H        | \$34,212 | \$34,690 | DS-3HTFT           | 45.4                 | 1700              | 94.1              | 129.0/296.0       |       |
|                | 1200/600(1)                 | 460     | 445T  | HW100PL36C        | \$31,678 | \$32,156 | DS-3HTFT           | 45.4                 | 1700              | 94.1              | 55.0/127.0        |       |
|                | 1200/600(1)                 | 575     | 445T  | HW100PL36G        | \$36,429 | \$36,907 | DS-3HTFT           | 45.4                 | 1700              | 94.1              | 46.0/104.0        |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

## APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.



CTE

## FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

**Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.**

| Options         | Frame Size |       |       |       |       |         |         |         |         |
|-----------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
|                 | 140        | 180   | 210   | 250   | 280   | 320     | 360     | 400     | 440     |
| Space Heater    | \$263      | \$328 | \$358 | \$490 | \$514 | \$538   | \$561   | \$597   | \$609   |
| Thermistor      | \$585      | \$585 | \$585 | \$585 | \$585 | \$585   | \$585   | \$585   | \$585   |
| Shaft Grounding | \$825      | \$853 | \$879 | \$905 | \$987 | \$1,067 | \$1,191 | \$1,859 | \$2,322 |

**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. \***

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A  | List B  | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|---------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 2 (1/2)        | 1800/900(2)                 | 200     | 184T  | HW2PK9H           | \$1,658 | \$1,783 | DS-3HTFT           | 15.5                 | 110               | 84.0              | 3.5/7.0           |       |
|                | 1800/900(2)                 | 460     | 184T  | HW2PK9C           | \$1,535 | \$1,660 | DS-3HTFT           | 15.5                 | 110               | 84.0              | 1.7/3.4           |       |
|                | 1800/900(2)                 | 575     | 184T  | HW2PK9G           | \$1,765 | \$1,890 | DS-3HTFT           | 15.5                 | 110               | 84.0              | 1.4/2.7           |       |
|                | 1200/600(2)                 | 200     | 215T  | HW2PK36H          | \$2,298 | \$2,435 | DS-3HTFT           | 19.1                 | 175               | 82.5              | 5.0/8.3           |       |
|                | 1200/600(2)                 | 460     | 215T  | HW2PK36C          | \$2,127 | \$2,264 | DS-3HTFT           | 19.1                 | 175               | 82.5              | 5.0/8.3           |       |
|                | 1200/600(2)                 | 575     | 215T  | HW2PK36G          | \$2,446 | \$2,583 | DS-3HTFT           | 19.1                 | 175               | 82.5              | 1.8/2.8           |       |
| 3 (3/4)        | 1800/900(2)                 | 200     | 213T  | HW3PK9H           | \$2,495 | \$2,632 | DS-3HTFT           | 19.1                 | 160               | 87.5              | 9.3/9.2           |       |
|                | 1800/900(2)                 | 460     | 213T  | HW3PK9C           | \$2,310 | \$2,447 | DS-3HTFT           | 19.1                 | 160               | 86.5              | 4.3/4.4           |       |
|                | 1800/900(2)                 | 575     | 213T  | HW3PK9G           | \$2,656 | \$2,793 | DS-3HTFT           | 19.1                 | 160               | 86.5              | 3.5/3.5           |       |
|                | 1200/600(2)                 | 200     | 254T  | HW3PK36H          | \$3,458 | \$3,632 | DS-3HTFT           | 25.5                 | 300               | 86.5              | 4.3/10.3          |       |
|                | 1200/600(2)                 | 460     | 254T  | HW3PK36C          | \$3,202 | \$3,376 | DS-3HTFT           | 25.5                 | 300               | 85.5              | 2.1/4.3           |       |
|                | 1200/600(2)                 | 575     | 254T  | HW3PK36G          | \$3,682 | \$3,856 | DS-3HTFT           | 25.5                 | 300               | 85.5              | 1.7/3.4           |       |
| 5 (1-1/4)      | 1800/900(2)                 | 200     | 215T  | HW5PK9H           | \$2,603 | \$2,740 | DS-3HTFT           | 19.1                 | 175               | 88.5              | 6.9/14.7          |       |
|                | 1800/900(2)                 | 460     | 215T  | HW5PK9C           | \$2,409 | \$2,546 | DS-3HTFT           | 19.1                 | 175               | 87.5              | 4.3/6.6           |       |
|                | 1800/900(2)                 | 575     | 215T  | HW5PK9G           | \$2,771 | \$2,908 | DS-3HTFT           | 19.1                 | 175               | 87.5              | 2.8/5.4           |       |
|                | 1200/600(2)                 | 200     | 256T  | HW5PK36H          | \$3,608 | \$3,782 | DS-3HTFT           | 25.5                 | 340               | 86.5              | 8.1/16.4          |       |
|                | 1200/600(2)                 | 460     | 256T  | HW5PK36C          | \$3,341 | \$3,515 | DS-3HTFT           | 25.5                 | 340               | 86.5              | 4.1/8.6           |       |
|                | 1200/600(2)                 | 575     | 256T  | HW5PK36G          | \$3,841 | \$4,015 | DS-3HTFT           | 25.5                 | 340               | 86.5              | 3.1/6.8           |       |
| 7 1/2 (1-7/8)  | 1800/900(2)                 | 200     | 254T  | HW7PK9H           | \$3,585 | \$3,759 | DS-3HTFT           | 25.5                 | 300               | 91.0              | 8.8/21.8          |       |
|                | 1800/900(2)                 | 460     | 254T  | HW7PK9C           | \$3,319 | \$3,493 | DS-3HTFT           | 25.5                 | 300               | 91.0              | 3.8/9.5           |       |
|                | 1800/900(2)                 | 575     | 254T  | HW7PK9G           | \$3,816 | \$3,990 | DS-3HTFT           | 25.5                 | 300               | 91.0              | 2.9/7.5           |       |
|                | 1200/600(2)                 | 200     | 284T  | HW7PK36H          | \$4,969 | \$5,190 | DS-3HTFT           | 27.0                 | 380               | 88.5              | 12.4/26.8         |       |
|                | 1200/600(2)                 | 460     | 284T  | HW7PK36C          | \$4,601 | \$4,822 | DS-3HTFT           | 27.0                 | 380               | 87.5              | 5.7/12.2          |       |
|                | 1200/600(2)                 | 575     | 284T  | HW7PK36G          | \$5,291 | \$5,512 | DS-3HTFT           | 27.0                 | 380               | 86.5              | 4.7/10.3          |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)



CTE

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 10 (2-1/2)     | 1800/900(2)                 | 200     | 256T  | HW10PK9H          | \$4,243  | \$4,417  | DS-3HTFT           | 25.5                 | 340               | 91.0              | 12.1/27.6         |       |
|                | 1800/900(2)                 | 460     | 256T  | HW10PK9C          | \$3,929  | \$4,103  | DS-3HTFT           | 25.5                 | 340               | 91.0              | 5.2/12.0          |       |
|                | 1800/900(2)                 | 575     | 256T  | HW10PK9G          | \$4,517  | \$4,691  | DS-3HTFT           | 25.5                 | 340               | 91.7              | 4.1/9.8           |       |
|                | 1200/600(2)                 | 200     | 286T  | HW10PK36H         | \$5,883  | \$6,104  | DS-3HTFT           | 27.0                 | 410               | 88.5              | 12.6/30.0         |       |
|                | 1200/600(2)                 | 460     | 286T  | HW10PK36C         | \$5,447  | \$5,668  | DS-3HTFT           | 27.0                 | 410               | 89.5              | 7.1/15.0          |       |
|                | 1200/600(2)                 | 575     | 286T  | HW10PK36G         | \$6,264  | \$6,485  | DS-3HTFT           | 27.0                 | 410               | 89.5              | 5.5/11.3          |       |
| 15 (3-3/4)     | 1800/900(2)                 | 200     | 284T  | HW15PK9H          | \$6,090  | \$6,311  | DS-3HTFT           | 27.0                 | 380               | 91.0              | 15.9/44.0         |       |
|                | 1800/900(2)                 | 460     | 284T  | HW15PK9C          | \$5,639  | \$5,860  | DS-3HTFT           | 27.0                 | 380               | 92.4              | 7.6/18.9          |       |
|                | 1800/900(2)                 | 575     | 284T  | HW15PK9G          | \$6,485  | \$6,706  | DS-3HTFT           | 27.0                 | 380               | 92.4              | 5.6/14.8          |       |
|                | 1200/600(2)                 | 200     | 324T  | HW15PK36H         | \$8,444  | \$8,725  | DS-3HTFT           | 30.6                 | 600               | 89.5              | 17.4/44.0         |       |
|                | 1200/600(2)                 | 460     | 324T  | HW15PK36C         | \$7,818  | \$8,099  | DS-3HTFT           | 30.6                 | 600               | 88.5              | 7.5/19.0          |       |
|                | 1200/600(2)                 | 575     | 324T  | HW15PK36G         | \$8,991  | \$9,272  | DS-3HTFT           | 30.6                 | 600               | 89.5              | 5.9/15.0          |       |
| 20 (5)         | 1800/900(2)                 | 200     | 286T  | HW20PK9H          | \$6,967  | \$7,188  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 20.4/56.0         |       |
|                | 1800/900(2)                 | 460     | 286T  | HW20PK9C          | \$6,451  | \$6,672  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 8.9/24.3          |       |
|                | 1800/900(2)                 | 575     | 286T  | HW20PK9G          | \$7,419  | \$7,640  | DS-3HTFT           | 27.0                 | 410               | 91.7              | 7.7/20.4          |       |
|                | 1200/600(2)                 | 200     | 326T  | HW20PK36H         | \$9,659  | \$9,940  | DS-3HTFT           | 30.6                 | 625               | 90.2              | 24.2/62.0         |       |
|                | 1200/600(2)                 | 460     | 326T  | HW20PK36C         | \$8,944  | \$9,225  | DS-3HTFT           | 30.6                 | 625               | 90.2              | 10.7/26.3         |       |
|                | 1200/600(2)                 | 575     | 326T  | HW20PK36G         | \$10,285 | \$10,566 | DS-3HTFT           | 30.6                 | 625               | 89.5              | 8.4/20.4          |       |
| 25 (6-1/4)     | 1800/900(2)                 | 200     | 324T  | HW25PK9H          | \$9,459  | \$9,740  | DS-3HTFT           | 30.6                 | 600               | 91.7              | 28.1/71.0         |       |
|                | 1800/900(2)                 | 460     | 324T  | HW25PK9C          | \$8,759  | \$9,040  | DS-3HTFT           | 30.6                 | 600               | 91.7              | 11.0/31.0         |       |
|                | 1800/900(2)                 | 575     | 324T  | HW25PK9G          | \$10,072 | \$10,353 | DS-3HTFT           | 30.6                 | 600               | 92.4              | 8.3/24.0          |       |
|                | 1200/600(2)                 | 200     | 364T  | HW25PK36H         | \$13,114 | \$13,424 | DS-3HTFT           | 33.6                 | 740               | 92.4              | 31.0/72.0         |       |
|                | 1200/600(2)                 | 460     | 364T  | HW25PK36C         | \$12,143 | \$12,453 | DS-3HTFT           | 33.6                 | 740               | 91.0              | 13.1/35.0         |       |
|                | 1200/600(2)                 | 575     | 364T  | HW25PK36G         | \$13,963 | \$14,273 | DS-3HTFT           | 33.6                 | 740               | 91.0              | 11.0/26.8         |       |
| 30 (7-1/2)     | 1800/900(2)                 | 200     | 326T  | HW30PK9H          | \$9,987  | \$10,268 | DS-3HTFT           | 30.6                 | 625               | 92.4              | 30.0/81.0         |       |
|                | 1800/900(2)                 | 460     | 326T  | HW30PK9C          | \$9,247  | \$9,528  | DS-3HTFT           | 30.6                 | 625               | 93.6              | 15.2/36.0         |       |
|                | 1800/900(2)                 | 575     | 326T  | HW30PK9G          | \$10,634 | \$10,915 | DS-3HTFT           | 30.6                 | 625               | 93.0              | 11.4/29.3         |       |
|                | 1200/600(2)                 | 200     | 365T  | HW30PK36H         | \$13,846 | \$14,156 | DS-3HTFT           | 33.6                 | 910               | 91.7              | 32.0/86.0         |       |
|                | 1200/600(2)                 | 460     | 365T  | HW30PK36C         | \$12,820 | \$13,130 | DS-3HTFT           | 33.6                 | 910               | 91.0              | 14.4/37.0         |       |
|                | 1200/600(2)                 | 575     | 365T  | HW30PK36G         | \$14,743 | \$15,053 | DS-3HTFT           | 33.6                 | 910               | 91.0              | 11.8/32.0         |       |
| 40 (10)        | 1800/900(2)                 | 200     | 364T  | HW40PK9H          | \$12,610 | \$12,920 | DS-3HTFT           | 33.6                 | 740               | 92.4              | 38.0/118.0        |       |
|                | 1800/900(2)                 | 460     | 364T  | HW40PK9C          | \$11,676 | \$11,986 | DS-3HTFT           | 33.6                 | 740               | 93.0              | 18.5/50.0         |       |
|                | 1800/900(2)                 | 575     | 364T  | HW40PK9G          | \$13,427 | \$13,737 | DS-3HTFT           | 33.6                 | 740               | 93.0              | 15.2/40.0         |       |
|                | 1200/600(2)                 | 200     | 404T  | HW40PK36H         | \$17,481 | \$17,900 | DS-3HTFT           | 37.7                 | 1160              | 91.7              | 45.0/127.0        |       |
|                | 1200/600(2)                 | 460     | 404T  | HW40PK36C         | \$16,186 | \$16,605 | DS-3HTFT           | 37.7                 | 1160              | 90.2              | 18.9/51.0         |       |
|                | 1200/600(2)                 | 575     | 404T  | HW40PK36G         | \$18,614 | \$19,033 | DS-3HTFT           | 37.7                 | 1160              | 91.7              | 15.8/42.0         |       |
| 50 (12-1/2)    | 1800/900(2)                 | 200     | 365T  | HW50PK9H          | \$14,716 | \$15,026 | DS-3HTFT           | 33.6                 | 910               | 93.6              | 47.0/136.0        |       |
|                | 1800/900(2)                 | 460     | 365T  | HW50PK9C          | \$13,625 | \$13,935 | DS-3HTFT           | 33.6                 | 910               | 94.5              | 22.5/58.0         |       |
|                | 1800/900(2)                 | 575     | 365T  | HW50PK9G          | \$15,669 | \$15,979 | DS-3HTFT           | 33.6                 | 910               | 94.5              | 17.5/46.0         |       |
|                | 1200/600(2)                 | 200     | 405T  | HW50PK36H         | \$20,400 | \$20,819 | DS-3HTFT           | 37.7                 | 1180              | 93.0              | 59.0/146.0        |       |
|                | 1200/600(2)                 | 460     | 405T  | HW50PK36C         | \$18,889 | \$19,308 | DS-3HTFT           | 37.7                 | 1180              | 92.4              | 26.7/63.0         |       |
|                | 1200/600(2)                 | 575     | 405T  | HW50PK36G         | \$21,722 | \$22,141 | DS-3HTFT           | 37.7                 | 1180              | 92.4              | 22.2/51.0         |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Fan Cooled (TEFC) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)



CTE

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5 & W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 60 (15)        | 1800/900(2)                 | 200     | 405T  | HW60PK9H          | \$19,713 | \$20,132 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 58.0/170.0        |       |
|                | 1800/900(2)                 | 460     | 405T  | HW60PK9C          | \$18,252 | \$18,671 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 26.6/74.0         |       |
|                | 1800/900(2)                 | 575     | 405T  | HW60PK9G          | \$20,990 | \$21,409 | DS-3HTFT           | 37.7                 | 1180              | 94.1              | 22.2/59.0         |       |
|                | 1200/600(2)                 | 200     | 444T  | HW60PK36H         | \$27,329 | \$27,807 | DS-3HTFT           | 45.4                 | 1660              | 91.7              | 61.0/180.0        |       |
|                | 1200/600(2)                 | 460     | 444T  | HW60PK36C         | \$25,304 | \$25,782 | DS-3HTFT           | 45.4                 | 1660              | 91.0              | 28.0/77.0         |       |
|                | 1200/600(2)                 | 575     | 444T  | HW60PK36G         | \$29,100 | \$29,578 | DS-3HTFT           | 45.4                 | 1660              | 91.0              | 22.9/64.0         |       |
| 75 (18-3/4)    | 1800/900(2)                 | 200     | 405T  | HW75PK9H          | \$22,877 | \$23,296 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 74.0/205.0        |       |
|                | 1800/900(2)                 | 460     | 405T  | HW75PK9C          | \$21,182 | \$21,601 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 31.0/89.0         |       |
|                | 1800/900(2)                 | 575     | 405T  | HW75PK9G          | \$24,360 | \$24,779 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 25.2/71.0         |       |
|                | 1200/600(2)                 | 200     | 445T  | HW75PK36H         | \$31,716 | \$32,194 | DS-3HTFT           | 45.4                 | 1700              | 93.6              | 91.0/255.0        |       |
|                | 1200/600(2)                 | 460     | 445T  | HW75PK36C         | \$29,367 | \$29,845 | DS-3HTFT           | 45.4                 | 1700              | 93.6              | 42.0/105.0        |       |
|                | 1200/600(2)                 | 575     | 445T  | HW75PK36G         | \$33,772 | \$34,250 | DS-3HTFT           | 45.4                 | 1700              | 93.6              | 35.0/89.0         |       |
| 100 (25)       | 1800/900(2)                 | 200     | 445T  | HW100PK9H         | \$34,212 | \$34,690 | DS-3HTFT           | 45.4                 | 1700              | 94.5              | 90.0/280.0        |       |
|                | 1800/900(2)                 | 460     | 445T  | HW100PK9C         | \$31,678 | \$32,156 | DS-3HTFT           | 45.4                 | 1700              | 94.1              | 38.0/115.0        |       |
|                | 1800/900(2)                 | 575     | 445T  | HW100PK9G         | \$36,429 | \$36,907 | DS-3HTFT           | 45.4                 | 1700              | 94.5              | 32.0/94.0         |       |
|                | 1200/600(2)                 | 200     | 447T  | HW100PK36H        | \$47,430 | \$47,908 | DS-3HTFT           | 48.9                 | 2025              | 93.0              | 144.0/304.0       |       |
|                | 1200/600(2)                 | 460     | 447T  | HW100PK36C        | \$43,917 | \$44,395 | DS-3HTFT           | 48.9                 | 2025              | 93.6              | 66.0/139.0        |       |
|                | 1200/600(2)                 | 575     | 447T  | HW100PK36G        | \$50,505 | \$50,983 | DS-3HTFT           | 48.9                 | 2025              | 93.0              | 55.0/112.0        |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

## APPLICATIONS:

For use directly in the airstream in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity. Air velocities per page.



CTNI

## FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Inverter Compatible: Exceeds NEMA® MG-1 Part 31 (10:1 Variable Torque)
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment

**Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.**

| Options         | Frame Size |       |       |       |       |         |         |         |         |
|-----------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
|                 | 140        | 180   | 210   | 250   | 280   | 320     | 360     | 400     | 440     |
| Space Heater    | \$263      | \$328 | \$358 | \$490 | \$514 | \$538   | \$561   | \$597   | \$609   |
| Thermistor      | \$585      | \$585 | \$585 | \$585 | \$585 | \$585   | \$585   | \$585   | \$585   |
| Shaft Grounding | \$825      | \$853 | \$879 | \$905 | \$987 | \$1,067 | \$1,191 | \$1,859 | \$2,322 |

**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \***

| HP    | RPM  | Voltage | Frame | Catalog Number | List A  | List B  | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|---------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 2     | 1800 | 200     | 145T  | HVV2V2H        | \$776   | \$865   | DS-3HTFT        | 11.1              | 70             | 86.5           | 6.6            |       |
|       | 1800 | 230/460 | 145T  | HVV2V2E        | \$719   | \$808   | DS-3HTFT        | 11.1              | 70             | 86.5           | 5.7/2.9        |       |
|       | 1800 | 575     | 145T  | HVV2V2G        | \$827   | \$916   | DS-3HTFT        | 11.1              | 70             | 86.5           | 2.3            |       |
|       | 1200 | 200     | 184T  | HVV2V3H        | \$1,436 | \$1,561 | DS-3HTFT        | 13.7              | 110            | 88.5           | 7.2            |       |
|       | 1200 | 230/460 | 184T  | HVV2V3E        | \$1,329 | \$1,454 | DS-3HTFT        | 13.7              | 110            | 88.5           | 6.2/3.1        |       |
|       | 1200 | 575     | 184T  | HVV2V3G        | \$1,529 | \$1,654 | DS-3HTFT        | 13.7              | 110            | 88.5           | 2.5            |       |
| 3     | 1800 | 200     | 182T  | HVV3V2H        | \$1,168 | \$1,293 | DS-3HTFT        | 13.7              | 100            | 89.5           | 9.2            |       |
|       | 1800 | 230/460 | 182T  | HVV3V2E        | \$1,081 | \$1,206 | DS-3HTFT        | 13.7              | 100            | 89.5           | 7.9/3.9        |       |
|       | 1800 | 575     | 182T  | HVV3V2G        | \$1,243 | \$1,368 | DS-3HTFT        | 13.7              | 100            | 89.5           | 3.2            |       |
|       | 1200 | 200     | 213T  | HVV3V3H        | \$2,161 | \$2,298 | DS-3HTFT        | 16.3              | 160            | 89.5           | 10.1           |       |
|       | 1200 | 230/460 | 213T  | HVV3V3E        | \$2,001 | \$2,138 | DS-3HTFT        | 16.3              | 160            | 90.2           | 8.7/4.4        |       |
|       | 1200 | 575     | 213T  | HVV3V3G        | \$2,301 | \$2,438 | DS-3HTFT        | 16.3              | 160            | 89.5           | 3.5            |       |
| 5     | 1800 | 200     | 184T  | HVV5V2H        | \$1,218 | \$1,343 | DS-3HTFT        | 13.7              | 110            | 89.5           | 14.4           |       |
|       | 1800 | 230/460 | 184T  | HVV5V2E        | \$1,129 | \$1,254 | DS-3HTFT        | 13.7              | 110            | 89.5           | 12.5/6.3       |       |
|       | 1800 | 575     | 184T  | HVV5V2G        | \$1,297 | \$1,422 | DS-3HTFT        | 13.7              | 110            | 89.5           | 5.0            |       |
|       | 1200 | 200     | 215T  | HVV5V3H        | \$2,254 | \$2,391 | DS-3HTFT        | 16.3              | 175            | 90.2           | 16.2           |       |
|       | 1200 | 230/460 | 215T  | HVV5V3E        | \$2,087 | \$2,224 | DS-3HTFT        | 16.3              | 175            | 90.2           | 14.0/7.0       |       |
|       | 1200 | 575     | 215T  | HVV5V3G        | \$2,400 | \$2,537 | DS-3HTFT        | 16.3              | 175            | 90.2           | 5.6            |       |
| 7 1/2 | 1800 | 200     | 213T  | HVV7V2H        | \$1,678 | \$1,815 | DS-3HTFT        | 16.3              | 160            | 91.7           | 21.1           |       |
|       | 1800 | 230/460 | 213T  | HVV7V2E        | \$1,554 | \$1,691 | DS-3HTFT        | 16.3              | 160            | 91.7           | 18.5/9.3       |       |
|       | 1800 | 575     | 213T  | HVV7V2G        | \$1,787 | \$1,924 | DS-3HTFT        | 16.3              | 160            | 91.7           | 7.5            |       |
|       | 1200 | 200     | 254T  | HVV7V3H        | \$3,104 | \$3,278 | DS-3HTFT        | 22.1              | 300            | 91.0           | 21.5           |       |
|       | 1200 | 230/460 | 254T  | HVV7V3E        | \$2,875 | \$3,049 | DS-3HTFT        | 22.1              | 300            | 91.0           | 18.6/9.3       |       |
|       | 1200 | 575     | 254T  | HVV7V3G        | \$3,306 | \$3,480 | DS-3HTFT        | 22.1              | 300            | 91.0           | 7.5            |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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GEN. PURPOSE  
UNIMOUNT  
GENERAL PURPOSE  
STEEL EDGE™  
GENERAL PURPOSE  
HOSTILE DUTY  
GENERAL PURPOSE  
CORRO-DUTY™  
GENERAL PURPOSE  
841 PLUS™  
GENERAL PURPOSE  
OPEN DRIPPROOF  
GENERAL PURPOSE  
HAZARDOUS  
LOCATION  
GENERAL PURPOSE  
AUTOMOTIVE DUTY  
COOLING TOWER  
DUTY  
HAZARDOUS  
LOCATION  
C-FACE  
MOTORS  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)



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List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \*

| HP | RPM  | Voltage | Frame | Catalog Number | List A   | List B   | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|----|------|---------|-------|----------------|----------|----------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 10 | 1800 | 200     | 215T  | HVW10V2H       | \$1,986  | \$2,123  | DS-3HTFT        | 16.3              | 175            | 91.7           | 27.3           |       |
|    | 1800 | 230/460 | 215T  | HVW10V2E       | \$1,839  | \$1,976  | DS-3HTFT        | 16.3              | 175            | 91.7           | 23.8/11.9      |       |
|    | 1800 | 575     | 215T  | HVW10V2G       | \$2,115  | \$2,252  | DS-3HTFT        | 16.3              | 175            | 91.7           | 9.6            |       |
|    | 1200 | 200     | 256T  | HVW10V3H       | \$3,675  | \$3,849  | DS-3HTFT        | 22.1              | 340            | 91.0           | 28.3           |       |
|    | 1200 | 230/460 | 256T  | HVW10V3E       | \$3,403  | \$3,577  | DS-3HTFT        | 22.1              | 340            | 91.7           | 24.5/12.3      |       |
|    | 1200 | 575     | 256T  | HVW10V3G       | \$3,913  | \$4,087  | DS-3HTFT        | 22.1              | 340            | 91.0           | 9.8            |       |
| 15 | 1800 | 200     | 254T  | HVW15V2H       | \$2,851  | \$3,025  | DS-3HTFT        | 22.1              | 300            | 92.4           | 42.0           |       |
|    | 1800 | 230/460 | 254T  | HVW15V2E       | \$2,640  | \$2,814  | DS-3HTFT        | 22.1              | 300            | 92.4           | 37.0/18.4      |       |
|    | 1800 | 575     | 254T  | HVW15V2G       | \$3,036  | \$3,210  | DS-3HTFT        | 22.1              | 300            | 92.4           | 14.4           |       |
|    | 1200 | 200     | 284T  | HVW15V3H       | \$5,275  | \$5,496  | DS-3HTFT        | 24.8              | 380            | 91.7           | 43.0           |       |
|    | 1200 | 230/460 | 284T  | HVW15V3E       | \$4,884  | \$5,105  | DS-3HTFT        | 24.8              | 380            | 91.7           | 37.0/18.6      |       |
|    | 1200 | 575     | 284T  | HVW15V3G       | \$5,617  | \$5,838  | DS-3HTFT        | 24.8              | 380            | 91.7           | 14.8           |       |
| 20 | 1800 | 200     | 256T  | HVW20V2H       | \$3,262  | \$3,436  | DS-3HTFT        | 22.1              | 340            | 93.0           | 54.0           |       |
|    | 1800 | 230/460 | 256T  | HVW20V2E       | \$3,021  | \$3,195  | DS-3HTFT        | 22.1              | 340            | 93.0           | 47.0/23.7      |       |
|    | 1800 | 575     | 256T  | HVW20V2G       | \$3,473  | \$3,647  | DS-3HTFT        | 22.1              | 340            | 93.0           | 19.1           |       |
|    | 1200 | 200     | 286T  | HVW20V3H       | \$6,034  | \$6,255  | DS-3HTFT        | 24.8              | 410            | 91.7           | 56.0           |       |
|    | 1200 | 230/460 | 286T  | HVW20V3E       | \$5,588  | \$5,809  | DS-3HTFT        | 24.8              | 410            | 91.7           | 49.0/24.5      |       |
|    | 1200 | 575     | 286T  | HVW20V3G       | \$6,426  | \$6,647  | DS-3HTFT        | 24.8              | 410            | 91.7           | 19.6           |       |
| 25 | 1800 | 200     | 284T  | HVW25V2H       | \$4,429  | \$4,650  | DS-3HTFT        | 24.8              | 380            | 93.6           | 67.0           |       |
|    | 1800 | 230/460 | 284T  | HVW25V2E       | \$4,101  | \$4,322  | DS-3HTFT        | 24.8              | 380            | 93.6           | 60.0/29.8      |       |
|    | 1800 | 575     | 284T  | HVW25V2G       | \$4,716  | \$4,937  | DS-3HTFT        | 24.8              | 380            | 93.6           | 23.3           |       |
|    | 1200 | 200     | 324T  | HVW25V3H       | \$8,193  | \$8,474  | DS-3HTFT        | 28.3              | 600            | 93.0           | 68.0           |       |
|    | 1200 | 230/460 | 324T  | HVW25V3E       | \$7,586  | \$7,867  | DS-3HTFT        | 28.3              | 600            | 93.0           | 59.0/29.3      |       |
|    | 1200 | 575     | 324T  | HVW25V3G       | \$8,724  | \$9,005  | DS-3HTFT        | 28.3              | 600            | 93.0           | 23.6           |       |
| 30 | 1800 | 200     | 286T  | HVW30V2H       | \$4,676  | \$4,897  | DS-3HTFT        | 24.8              | 410            | 93.6           | 79.0           |       |
|    | 1800 | 230/460 | 286T  | HVW30V2E       | \$4,330  | \$4,551  | DS-3HTFT        | 24.8              | 410            | 93.6           | 69.0/34.0      |       |
|    | 1800 | 575     | 286T  | HVW30V2G       | \$4,978  | \$5,199  | DS-3HTFT        | 24.8              | 410            | 93.6           | 27.6           |       |
|    | 1200 | 200     | 326T  | HVW30V3H       | \$8,650  | \$8,931  | DS-3HTFT        | 28.3              | 625            | 93.0           | 80.0           |       |
|    | 1200 | 230/460 | 326T  | HVW30V3E       | \$8,009  | \$8,290  | DS-3HTFT        | 28.3              | 625            | 93.0           | 70.0/35.0      |       |
|    | 1200 | 575     | 326T  | HVW30V3G       | \$9,210  | \$9,491  | DS-3HTFT        | 28.3              | 625            | 93.0           | 28.2           |       |
| 40 | 1800 | 200     | 324T  | HVW40V2H       | \$5,903  | \$6,184  | DS-3HTFT        | 28.3              | 600            | 94.1           | 105.0          |       |
|    | 1800 | 230/460 | 324T  | HVW40V2E       | \$5,466  | \$5,747  | DS-3HTFT        | 28.3              | 600            | 94.1           | 92.0/46.0      |       |
|    | 1800 | 575     | 324T  | HVW40V2G       | \$6,286  | \$6,567  | DS-3HTFT        | 28.3              | 600            | 94.1           | 37.0           |       |
|    | 1200 | 200     | 364T  | HVW40V3H       | \$10,921 | \$11,231 | DS-3HTFT        | 30.4              | 740            | 94.1           | 107.0          |       |
|    | 1200 | 230/460 | 364T  | HVW40V3E       | \$10,112 | \$10,422 | DS-3HTFT        | 28.3              | 740            | 94.1           | 93.0/46.0      |       |
|    | 1200 | 575     | 364T  | HVW40V3G       | \$11,629 | \$11,939 | DS-3HTFT        | 30.4              | 740            | 94.1           | 37.0           |       |
| 50 | 1800 | 200     | 326T  | HVW50V2H       | \$6,890  | \$7,171  | DS-3HTFT        | 28.3              | 625            | 94.5           | 130.0          |       |
|    | 1800 | 230/460 | 326T  | HVW50V2E       | \$6,380  | \$6,661  | DS-3HTFT        | 28.3              | 625            | 94.5           | 112.0/56.0     |       |
|    | 1800 | 575     | 326T  | HVW50V2G       | \$7,336  | \$7,617  | DS-3HTFT        | 28.3              | 625            | 94.5           | 45.0           |       |
|    | 1200 | 200     | 365T  | HVW50V3H       | \$12,745 | \$13,055 | DS-3HTFT        | 30.4              | 910            | 94.1           | 134.0          |       |
|    | 1200 | 230/460 | 365T  | HVW50V3E       | \$11,801 | \$12,111 | DS-3HTFT        | 30.4              | 910            | 94.1           | 116.0/58.0     |       |
|    | 1200 | 575     | 365T  | HVW50V3G       | \$13,571 | \$13,881 | DS-3HTFT        | 30.4              | 910            | 94.1           | 46.0           |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)



CTNI

**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \***

| HP  | RPM  | Voltage | Frame | Catalog Number | List A   | List B   | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|----------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 60  | 1800 | 200     | 364T  | HVW60V2H       | \$9,229  | \$9,539  | DS-3HTFT        | 30.4              | 740            | 95.0           | 159.0          |       |
|     | 1800 | 230/460 | 364T  | HVW60V2E       | \$8,545  | \$8,855  | DS-3HTFT        | 30.4              | 740            | 95.0           | 137.0/69.0     |       |
|     | 1800 | 575     | 364T  | HVW60V2G       | \$9,828  | \$10,138 | DS-3HTFT        | 30.4              | 740            | 95.0           | 55.0           |       |
|     | 1200 | 200     | 404T  | HVW60V3H       | \$17,073 | \$17,492 | DS-3HTFT        | 33.9              | 1160           | 94.5           | 161.0          |       |
|     | 1200 | 230/460 | 404T  | HVW60V3E       | \$15,810 | \$16,229 | DS-3HTFT        | 33.9              | 1160           | 94.5           | 140.0/70.0     |       |
|     | 1200 | 575     | 404T  | HVW60V3G       | \$18,181 | \$18,600 | DS-3HTFT        | 33.9              | 1160           | 94.5           | 56.0           |       |
| 75  | 1800 | 200     | 365T  | HVW75V2H       | \$10,711 | \$11,021 | DS-3HTFT        | 30.4              | 910            | 95.4           | 193.0          |       |
|     | 1800 | 230/460 | 365T  | HVW75V2E       | \$9,917  | \$10,227 | DS-3HTFT        | 30.4              | 910            | 95.4           | 169.0/84.0     |       |
|     | 1800 | 575     | 365T  | HVW75V2G       | \$11,405 | \$11,715 | DS-3HTFT        | 30.4              | 910            | 95.4           | 68.0           |       |
|     | 1200 | 200     | 405T  | HVW75V3H       | \$19,815 | \$20,234 | DS-3HTFT        | 33.9              | 1180           | 94.5           | 201.0          |       |
|     | 1200 | 230/460 | 405T  | HVW75V3E       | \$18,347 | \$18,766 | DS-3HTFT        | 33.9              | 1180           | 94.5           | 173.0/87.0     |       |
|     | 1200 | 575     | 405T  | HVW75V3G       | \$21,099 | \$21,518 | DS-3HTFT        | 33.9              | 1180           | 94.5           | 70.0           |       |
| 100 | 1800 | 200     | 405T  | HVW100V2H      | \$16,018 | \$16,437 | DS-3HTFT        | 33.9              | 1180           | 95.4           | 260.0          |       |
|     | 1800 | 230/460 | 405T  | HVW100V2E      | \$14,831 | \$15,250 | DS-3HTFT        | 33.9              | 1180           | 95.4           | 225.0/113.0    |       |
|     | 1800 | 575     | 405T  | HVW100V2G      | \$17,055 | \$17,474 | DS-3HTFT        | 33.9              | 1180           | 95.4           | 90.0           |       |
|     | 1200 | 200     | 444T  | HVW100V3H      | \$29,632 | \$30,110 | DS-3HTFT        | 39.9              | 1660           | 95.0           | 284.0          |       |
|     | 1200 | 230/460 | 444T  | HVW100V3E      | \$27,438 | \$27,916 | DS-3HTFT        | 39.9              | 1660           | 95.0           | 248.0/124.0    |       |
|     | 1200 | 575     | 444T  | HVW100V3G      | \$31,552 | \$32,030 | DS-3HTFT        | 39.9              | 1660           | 95.0           | 99.0           |       |

## Minimum Air Velocity Required for TEAO Models

| Horsepower | Velocity (FPM)<br>4 Pole | Velocity (FPM)<br>6 Pole |
|------------|--------------------------|--------------------------|
| 2          | 1000                     | 580                      |
| 3          | 1000                     | 600                      |
| 5          | 1054                     | 700                      |
| 7.5        | 1023                     | 650                      |
| 10         | 975                      | 600                      |
| 15         | 1500                     | 650                      |
| 20         | 1700                     | 850                      |

| Horsepower | Velocity (FPM)<br>4 Pole | Velocity (FPM)<br>6 Pole |
|------------|--------------------------|--------------------------|
| 25         | 1500                     | 950                      |
| 30         | 1600                     | 1000                     |
| 40         | 1700                     | 1100                     |
| 50         | 1800                     | 1150                     |
| 60         | 1800                     | 1150                     |
| 75         | 2000                     | 1300                     |
| 100        | 2000                     | 1300                     |

\*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



GEN. PURPOSE  
UNIMOUNT  
GENERAL PURPOSE  
STEEL EDGE  
GENERAL PURPOSE  
HOSTILE DUTY  
GENERAL PURPOSE  
CORRO-DUTY  
GENERAL PURPOSE  
841 PLUS  
GENERAL PURPOSE  
OPEN DRIPPROOF  
GENERAL PURPOSE  
HAZARDOUS  
LOCATION  
GENERAL PURPOSE  
AUTOMOTIVE DUTY  
COOLING TOWER  
DUTY  
HAZARDOUS  
LOCATION  
C-FACE  
MOTORS  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 1 Winding



## APPLICATIONS:

For use directly in the airstream in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

## FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA<sup>®</sup> Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY<sup>®</sup> Motor Paint and Rotor Treatment

**Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.**

| Options         | Frame Size |       |       |       |       |         |         |         |         |
|-----------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
|                 | 140        | 180   | 210   | 250   | 280   | 320     | 360     | 400     | 440     |
| Space Heater    | \$263      | \$328 | \$358 | \$490 | \$514 | \$538   | \$561   | \$597   | \$609   |
| Thermistor      | \$585      | \$585 | \$585 | \$585 | \$585 | \$585   | \$585   | \$585   | \$585   |
| Shaft Grounding | \$825      | \$853 | \$879 | \$905 | \$987 | \$1,067 | \$1,191 | \$1,859 | \$2,322 |

**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \***

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A  | List B  | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|---------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 2 (1/2)        | 1800/900(1)                 | 200     | 145T  | HVW2PL9H          | \$1,048 | \$1,137 | DS-3HTFT           | 11.1                 | 70                | 84.0              | 4.1/6.4           |       |
|                | 1800/900(1)                 | 460     | 145T  | HVW2PL9C          | \$970   | \$1,059 | DS-3HTFT           | 11.1                 | 70                | 84.0              | 1.9/2.8           |       |
|                | 1800/900(1)                 | 575     | 145T  | HVW2PL9G          | \$1,116 | \$1,205 | DS-3HTFT           | 11.1                 | 70                | 84.0              | 1.4/2.2           |       |
|                | 1200/600(1)                 | 200     | 213T  | HVW2PL36H         | \$1,707 | \$1,844 | DS-3HTFT           | 16.3                 | 175               | 87.5              | 4.8/7.2           |       |
|                | 1200/600(1)                 | 460     | 213T  | HVW2PL36C         | \$1,580 | \$1,717 | DS-3HTFT           | 16.3                 | 160               | 85.5              | 2.0/3.1           |       |
|                | 1200/600(1)                 | 575     | 213T  | HVW2PL36G         | \$1,818 | \$1,955 | DS-3HTFT           | 16.3                 | 160               | 86.5              | 1.6/2.5           |       |
| 3 (3/4)        | 1800/900(1)                 | 200     | 182T  | HVW3PL9H          | \$1,577 | \$1,702 | DS-3HTFT           | 13.7                 | 100               | 86.5              | 4.0/9.7           |       |
|                | 1800/900(1)                 | 460     | 182T  | HVW3PL9C          | \$1,460 | \$1,585 | DS-3HTFT           | 13.7                 | 100               | 85.5              | 1.8/4.5           |       |
|                | 1800/900(1)                 | 575     | 182T  | HVW3PL9G          | \$1,679 | \$1,804 | DS-3HTFT           | 13.7                 | 100               | 84.0              | 1.5/3.5           |       |
|                | 1200/600(1)                 | 200     | 215T  | HVW3PL36H         | \$2,569 | \$2,706 | DS-3HTFT           | 16.3                 | 175               | 85.5              | 5.2/9.7           |       |
|                | 1200/600(1)                 | 460     | 215T  | HVW3PL36C         | \$2,379 | \$2,516 | DS-3HTFT           | 16.3                 | 175               | 66.0              | 4.2/2.3           |       |
|                | 1200/600(1)                 | 575     | 215T  | HVW3PL36G         | \$2,736 | \$2,873 | DS-3HTFT           | 16.3                 | 175               | 85.5              | 1.8/3.4           |       |
| 5 (1-1/4)      | 1800/900(1)                 | 200     | 184T  | HVW5PL9H          | \$1,645 | \$1,770 | DS-3HTFT           | 13.7                 | 110               | 86.5              | 6.4/16.2          |       |
|                | 1800/900(1)                 | 460     | 184T  | HVW5PL9C          | \$1,523 | \$1,648 | DS-3HTFT           | 13.7                 | 110               | 86.5              | 2.6/6.6           |       |
|                | 1800/900(1)                 | 575     | 184T  | HVW5PL9G          | \$1,751 | \$1,876 | DS-3HTFT           | 13.7                 | 110               | 86.5              | 2.0/5.2           |       |
|                | 1200/600(1)                 | 200     | 254T  | HVW5PL36H         | \$2,680 | \$2,854 | DS-3HTFT           | 22.1                 | 300               | 87.5              | 6.9/17.7          |       |
|                | 1200/600(1)                 | 460     | 254T  | HVW5PL36C         | \$2,482 | \$2,656 | DS-3HTFT           | 22.1                 | 300               | 88.5              | 3.4/7.2           |       |
|                | 1200/600(1)                 | 575     | 254T  | HVW5PL36G         | \$2,855 | \$3,029 | DS-3HTFT           | 22.1                 | 300               | 87.5              | 2.8/5.9           |       |
| 7 1/2 (1-7/8)  | 1800/900(1)                 | 200     | 213T  | HVW7PL9H          | \$2,266 | \$2,403 | DS-3HTFT           | 16.3                 | 160               | 87.5              | 8.9/23.6          |       |
|                | 1800/900(1)                 | 460     | 213T  | HVW7PL9C          | \$2,097 | \$2,234 | DS-3HTFT           | 16.3                 | 160               | 88.5              | 3.6/9.5           |       |
|                | 1800/900(1)                 | 575     | 213T  | HVW7PL9G          | \$2,413 | \$2,550 | DS-3HTFT           | 16.3                 | 160               | 88.5              | 2.8/7.4           |       |
|                | 1200/600(1)                 | 200     | 256T  | HVW7PL36H         | \$3,692 | \$3,866 | DS-3HTFT           | 22.1                 | 340               | 90.2              | 14.9/23.4         |       |
|                | 1200/600(1)                 | 460     | 256T  | HVW7PL36C         | \$3,419 | \$3,593 | DS-3HTFT           | 22.1                 | 340               | 88.5              | 7.6/11.0          |       |
|                | 1200/600(1)                 | 575     | 256T  | HVW7PL36G         | \$3,931 | \$4,105 | DS-3HTFT           | 22.1                 | 340               | 90.2              | 6.1/8.8           |       |
| 10 (2-1/2)     | 1800/900(1)                 | 200     | 215T  | HVW10PL9H         | \$2,682 | \$2,819 | DS-3HTFT           | 16.3                 | 175               | 88.5              | 10.8/28.3         |       |
|                | 1800/900(1)                 | 460     | 215T  | HVW10PL9C         | \$2,483 | \$2,620 | DS-3HTFT           | 16.3                 | 175               | 88.5              | 4.9/12.9          |       |
|                | 1800/900(1)                 | 575     | 215T  | HVW10PL9G         | \$2,856 | \$2,993 | DS-3HTFT           | 16.3                 | 175               | 90.2              | 3.8/9.9           |       |
|                | 1200/600(1)                 | 200     | 284T  | HVW10PL36H        | \$4,370 | \$4,591 | DS-3HTFT           | 24.8                 | 380               | 87.5              | 14.5/40.0         |       |
|                | 1200/600(1)                 | 460     | 284T  | HVW10PL36C        | \$4,047 | \$4,268 | DS-3HTFT           | 24.8                 | 380               | 88.5              | 5.8/14.9          |       |
|                | 1200/600(1)                 | 575     | 284T  | HVW10PL36G        | \$4,654 | \$4,875 | DS-3HTFT           | 24.8                 | 380               | 89.5              | 4.6/11.4          |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 1 Winding

(continued)



List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 15 (3-3/4)     | 1800/900(1)                 | 200     | 254T  | HVW15PL9H         | \$3,850  | \$4,024  | DS-3HTFT           | 22.1                 | 300               | 91.0              | 16.8/43.0         |       |
|                | 1800/900(1)                 | 460     | 254T  | HVW15PL9C         | \$3,564  | \$3,738  | DS-3HTFT           | 22.1                 | 300               | 91.0              | 7.6/19.3          |       |
|                | 1800/900(1)                 | 575     | 254T  | HVW15PL9G         | \$4,099  | \$4,273  | DS-3HTFT           | 22.1                 | 300               | 91.0              | 6.1/15.4          |       |
|                | 1200/600(1)                 | 200     | 286T  | HVW15PL36H        | \$6,273  | \$6,494  | DS-3HTFT           | 24.8                 | 410               | 90.2              | 21.8/43.0         |       |
|                | 1200/600(1)                 | 460     | 286T  | HVW15PL36C        | \$5,809  | \$6,030  | DS-3HTFT           | 24.8                 | 410               | 90.2              | 7.6/18.9          |       |
|                | 1200/600(1)                 | 575     | 286T  | HVW15PL36G        | \$6,679  | \$6,900  | DS-3HTFT           | 24.8                 | 410               | 91.0              | 9.9/16.0          |       |
| 20 (5)         | 1800/900(1)                 | 200     | 256T  | HVW20PL9H         | \$4,404  | \$4,578  | DS-3HTFT           | 22.1                 | 340               | 91.0              | 21.3/56.0         |       |
|                | 1800/900(1)                 | 460     | 256T  | HVW20PL9C         | \$4,078  | \$4,252  | DS-3HTFT           | 22.1                 | 340               | 91.0              | 9.1/24.1          |       |
|                | 1800/900(1)                 | 575     | 256T  | HVW20PL9G         | \$4,689  | \$4,863  | DS-3HTFT           | 22.1                 | 340               | 91.0              | 7.2/19.2          |       |
|                | 1200/600(1)                 | 200     | 324T  | HVW20PL36H        | \$7,176  | \$7,457  | DS-3HTFT           | 28.3                 | 600               | 91.0              | 20.6/55.0         |       |
|                | 1200/600(1)                 | 460     | 324T  | HVW20PL36C        | \$6,645  | \$6,926  | DS-3HTFT           | 28.3                 | 600               | 90.2              | 9.1/24.1          |       |
|                | 1200/600(1)                 | 575     | 324T  | HVW20PL36G        | \$7,641  | \$7,922  | DS-3HTFT           | 28.3                 | 600               | 90.2              | 7.2/19.3          |       |
| 25/(6-1/4)     | 1800/900(1)                 | 200     | 286T  | HVW25PL9H         | \$5,978  | \$6,199  | DS-3HTFT           | 24.8                 | 410               | 92.4              | 25.5/68.0         |       |
|                | 1800/900(1)                 | 460     | 286T  | HVW25PL9C         | \$5,536  | \$5,757  | DS-3HTFT           | 24.8                 | 410               | 92.4              | 11.1/29.6         |       |
|                | 1800/900(1)                 | 575     | 286T  | HVW25PL9G         | \$6,366  | \$6,587  | DS-3HTFT           | 24.8                 | 410               | 92.4              | 9.0/23.8          |       |
|                | 1200/600(1)                 | 200     | 326T  | HVW25PL36H        | \$9,743  | \$10,024 | DS-3HTFT           | 28.3                 | 625               | 91.7              | 33.0/69.0         |       |
|                | 1200/600(1)                 | 460     | 326T  | HVW25PL36C        | \$9,022  | \$9,303  | DS-3HTFT           | 28.3                 | 625               | 92.4              | 15.7/30.0         |       |
|                | 1200/600(1)                 | 575     | 326T  | HVW25PL36G        | \$10,374 | \$10,655 | DS-3HTFT           | 28.3                 | 625               | 92.4              | 12.7/24.1         |       |
| 30 (7-1/2)     | 1800/900(1)                 | 200     | 324T  | HVW30PL9H         | \$6,313  | \$6,594  | DS-3HTFT           | 28.3                 | 600               | 92.4              | 30.0/81.0         |       |
|                | 1800/900(1)                 | 460     | 324T  | HVW30PL9C         | \$5,844  | \$6,125  | DS-3HTFT           | 28.3                 | 600               | 92.4              | 12.6/35.0         |       |
|                | 1800/900(1)                 | 575     | 324T  | HVW30PL9G         | \$6,721  | \$7,002  | DS-3HTFT           | 28.3                 | 600               | 93.0              | 10.5/28.1         |       |
|                | 1200/600(1)                 | 200     | 364T  | HVW30PL36H        | \$10,287 | \$10,597 | DS-3HTFT           | 30.4                 | 740               | 92.4              | 32.0/90.0         |       |
|                | 1200/600(1)                 | 460     | 364T  | HVW30PL36C        | \$9,525  | \$9,835  | DS-3HTFT           | 30.4                 | 740               | 92.4              | 14.0/41.0         |       |
|                | 1200/600(1)                 | 575     | 364T  | HVW30PL36G        | \$10,953 | \$11,263 | DS-3HTFT           | 30.4                 | 740               | 92.4              | 11.3/33.0         |       |
| 40 (10)        | 1800/900(1)                 | 200     | 326T  | HVW40PL9H         | \$7,969  | \$8,250  | DS-3HTFT           | 28.3                 | 625               | 93.0              | 39.0/106.0        |       |
|                | 1800/900(1)                 | 460     | 326T  | HVW40PL9C         | \$7,379  | \$7,660  | DS-3HTFT           | 28.3                 | 625               | 93.0              | 16.7/46.0         |       |
|                | 1800/900(1)                 | 575     | 326T  | HVW40PL9G         | \$8,487  | \$8,768  | DS-3HTFT           | 28.3                 | 625               | 92.4              | 13.3/37.0         |       |
|                | 1200/600(1)                 | 200     | 364T  | HVW40PL36H        | \$12,987 | \$13,297 | DS-3HTFT           | 30.4                 | 740               | 91.7              | 41.0/126.0        |       |
|                | 1200/600(1)                 | 460     | 364T  | HVW40PL36C        | \$12,026 | \$12,336 | DS-3HTFT           | 30.4                 | 740               | 91.7              | 17.8/54.0         |       |
|                | 1200/600(1)                 | 575     | 364T  | HVW40PL36G        | \$13,829 | \$14,139 | DS-3HTFT           | 30.4                 | 740               | 91.0              | 14.3/43.0         |       |
| 50 (12-1/2)    | 1800/900(1)                 | 200     | 364T  | HVW50PL9H         | \$9,301  | \$9,611  | DS-3HTFT           | 30.4                 | 740               | 93.6              | 45.0/136.0        |       |
|                | 1800/900(1)                 | 460     | 364T  | HVW50PL9C         | \$8,612  | \$8,922  | DS-3HTFT           | 30.4                 | 740               | 93.6              | 21.3/59.0         |       |
|                | 1800/900(1)                 | 575     | 364T  | HVW50PL9G         | \$9,903  | \$10,213 | DS-3HTFT           | 30.4                 | 740               | 93.6              | 15.7/47.0         |       |
|                | 1200/600(1)                 | 200     | 365T  | HVW50PL36H        | \$15,156 | \$15,466 | DS-3HTFT           | 30.4                 | 910               | 92.4              | 55.0/144.0        |       |
|                | 1200/600(1)                 | 460     | 365T  | HVW50PL36C        | \$14,034 | \$14,344 | DS-3HTFT           | 30.4                 | 910               | 93.0              | 22.9/61.0         |       |
|                | 1200/600(1)                 | 575     | 365T  | HVW50PL36G        | \$16,139 | \$16,449 | DS-3HTFT           | 30.4                 | 910               | 92.4              | 18.3/49.0         |       |
| 60 (15)        | 1800/900(1)                 | 200     | 365T  | HVW60PL9H         | \$12,459 | \$12,769 | DS-3HTFT           | 30.4                 | 910               | 93.6              | 56.0/158.0        |       |
|                | 1800/900(1)                 | 460     | 365T  | HVW60PL9C         | \$11,536 | \$11,846 | DS-3HTFT           | 30.4                 | 910               | 94.1              | 24.9/69.0         |       |
|                | 1800/900(1)                 | 575     | 365T  | HVW60PL9G         | \$13,267 | \$13,577 | DS-3HTFT           | 30.4                 | 910               | 94.1              | 20.0/55.0         |       |
|                | 1200/600(1)                 | 200     | 405T  | HVW60PL36H        | \$20,304 | \$20,723 | DS-3HTFT           | 33.9                 | 1180              | 94.1              | 69.0/170.0        |       |
|                | 1200/600(1)                 | 460     | 405T  | HVW60PL36C        | \$18,801 | \$19,220 | DS-3HTFT           | 33.9                 | 1180              | 94.1              | 29.0/72.0         |       |
|                | 1200/600(1)                 | 575     | 405T  | HVW60PL36G        | \$21,621 | \$22,040 | DS-3HTFT           | 33.9                 | 1180              | 94.1              | 23.0/58.0         |       |
| 75 (18-3/4)    | 1800/900(1)                 | 200     | 405T  | HVW75PL9H         | \$14,460 | \$14,879 | DS-3HTFT           | 33.9                 | 1180              | 94.1              | 69.0/197.0        |       |
|                | 1800/900(1)                 | 460     | 405T  | HVW75PL9C         | \$13,389 | \$13,808 | DS-3HTFT           | 33.9                 | 1180              | 94.1              | 31.0/86.0         |       |
|                | 1800/900(1)                 | 575     | 405T  | HVW75PL9G         | \$15,396 | \$15,815 | DS-3HTFT           | 33.9                 | 1180              | 94.1              | 24.3/69.0         |       |
|                | 1200/600(1)                 | 200     | 444T  | HVW75PL36H        | \$23,564 | \$24,042 | DS-3HTFT           | 40.0                 | 1660              | 93.6              | 74.0/201.0        |       |
|                | 1200/600(1)                 | 460     | 444T  | HVW75PL36C        | \$21,818 | \$22,296 | DS-3HTFT           | 40.0                 | 1660              | 93.6              | 33.0/88.0         |       |
|                | 1200/600(1)                 | 575     | 444T  | HVW75PL36G        | \$25,091 | \$25,569 | DS-3HTFT           | 40.0                 | 1660              | 93.6              | 26.4/71.0         |       |

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 1 Winding

(continued)



CTEN

List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 100 (25)       | 1800/900(1)                 | 200     | 444T  | HVVW100PL9H       | \$21,623 | \$22,101 | DS-3HTFT           | 40.0                 | 1660              | 94.1              | 88.0/261.0        |       |
|                | 1800/900(1)                 | 460     | 444T  | HVVW100PL9C       | \$20,021 | \$20,499 | DS-3HTFT           | 40.0                 | 1660              | 94.1              | 39.0/114.0        |       |
|                | 1800/900(1)                 | 575     | 444T  | HVVW100PL9G       | \$23,025 | \$23,503 | DS-3HTFT           | 40.0                 | 1660              | 93.6              | 32.0/92.0         |       |
|                | 1200/600(1)                 | 200     | 445T  | HVVW100PL36H      | \$35,239 | \$35,717 | DS-3HTFT           | 40.0                 | 1700              | 94.5              | 129.0/294.0       |       |
|                | 1200/600(1)                 | 460     | 445T  | HVVW100PL36C      | \$32,629 | \$33,107 | DS-3HTFT           | 40.0                 | 1700              | 94.1              | 55.0/127.0        |       |
|                | 1200/600(1)                 | 575     | 445T  | HVVW100PL36G      | \$37,522 | \$38,000 | DS-3HTFT           | 40.0                 | 1700              | 94.1              | 45.0/104.0        |       |

## Minimum Air Velocity Required for TEAO Models

| Horsepower | Velocity (FPM)<br>4 Pole | Velocity (FPM)<br>6 Pole | Horsepower | Velocity (FPM)<br>4 Pole | Velocity (FPM)<br>6 Pole |
|------------|--------------------------|--------------------------|------------|--------------------------|--------------------------|
| 2          | 1000                     | 580                      | 25         | 1500                     | 950                      |
| 3          | 1000                     | 600                      | 30         | 1600                     | 1000                     |
| 5          | 1054                     | 700                      | 40         | 1700                     | 1100                     |
| 7.5        | 1023                     | 650                      | 50         | 1800                     | 1150                     |
| 10         | 975                      | 600                      | 60         | 1800                     | 1150                     |
| 15         | 1500                     | 650                      | 75         | 2000                     | 1300                     |
| 20         | 1700                     | 850                      | 100        | 2000                     | 1300                     |

\*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

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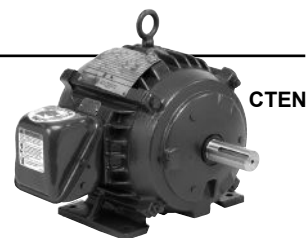
# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

## APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

## FEATURES:

- Double Dip & Bake, 100% Solids, Polyester Insulation On Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame
- Bearing Isolators on "wet" end for vertical mounting positions
- Double Sealed, same size bearings both ends
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec
- NEMA® Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment



**Option List Prices:** Add motor & required options list prices, then use applicable multiplier to calculate net price.

| Options         | Frame Size |       |       |       |       |         |         |         |         |
|-----------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
|                 | 140        | 180   | 210   | 250   | 280   | 320     | 360     | 400     | 440     |
| Space Heater    | \$263      | \$328 | \$358 | \$490 | \$514 | \$538   | \$561   | \$597   | \$609   |
| Thermistor      | \$585      | \$585 | \$585 | \$585 | \$585 | \$585   | \$585   | \$585   | \$585   |
| Shaft Grounding | \$825      | \$853 | \$879 | \$905 | \$987 | \$1,067 | \$1,191 | \$1,859 | \$2,322 |

**List A:** For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. **List B:** For mounting positions W5, W6, W7, W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A  | List B  | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|---------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 2 (1/2)        | 1800/900(2)                 | 200     | 184T  | HVW2PK9H          | \$1,707 | \$1,832 | DS-3HTFT           | 15.5                 | 110               | 84.0              | 3.5/7.0           |       |
|                | 1800/900(2)                 | 460     | 184T  | HVW2PK9C          | \$1,580 | \$1,705 | DS-3HTFT           | 15.5                 | 110               | 84.0              | 1.7/3.4           |       |
|                | 1800/900(2)                 | 575     | 184T  | HVW2PK9G          | \$1,818 | \$1,943 | DS-3HTFT           | 15.5                 | 110               | 84.0              | 1.4/2.7           |       |
|                | 1200/600(2)                 | 200     | 215T  | HVW2PK36H         | \$2,366 | \$2,503 | DS-3HTFT           | 19.1                 | 175               | 82.5              | 5.0/8.3           |       |
|                | 1200/600(2)                 | 460     | 215T  | HVW2PK36C         | \$2,192 | \$2,329 | DS-3HTFT           | 19.1                 | 175               | 81.5              | 2.3/3.7           |       |
|                | 1200/600(2)                 | 575     | 215T  | HVW2PK36G         | \$2,520 | \$2,657 | DS-3HTFT           | 19.1                 | 175               | 82.5              | 1.8/2.8           |       |
| 3 (3/4)        | 1800/900(2)                 | 200     | 213T  | HVW3PK9H          | \$2,569 | \$2,706 | DS-3HTFT           | 19.1                 | 160               | 87.5              | 9.3/9.2           |       |
|                | 1800/900(2)                 | 460     | 213T  | HVW3PK9C          | \$2,379 | \$2,516 | DS-3HTFT           | 19.1                 | 160               | 87.5              | 4.3/4.3           |       |
|                | 1800/900(2)                 | 575     | 213T  | HVW3PK9G          | \$2,736 | \$2,873 | DS-3HTFT           | 19.1                 | 160               | 86.5              | 3.5/3.5           |       |
|                | 1200/600(2)                 | 200     | 254T  | HVW3PK36H         | \$3,562 | \$3,736 | DS-3HTFT           | 25.5                 | 300               | 86.5              | 4.4/10.3          |       |
|                | 1200/600(2)                 | 460     | 254T  | HVW3PK36C         | \$3,298 | \$3,472 | DS-3HTFT           | 25.5                 | 300               | 85.5              | 2.1/4.3           |       |
|                | 1200/600(2)                 | 575     | 254T  | HVW3PK36G         | \$3,794 | \$3,968 | DS-3HTFT           | 25.5                 | 300               | 85.5              | 1.7/3.4           |       |
| 5 (1-1/4)      | 1800/900(2)                 | 200     | 215T  | HVW5PK9H          | \$2,680 | \$2,817 | DS-3HTFT           | 19.1                 | 175               | 88.5              | 6.9/14.7          |       |
|                | 1800/900(2)                 | 460     | 215T  | HVW5PK9C          | \$2,482 | \$2,619 | DS-3HTFT           | 19.1                 | 175               | 87.5              | 4.3/6.6           |       |
|                | 1800/900(2)                 | 575     | 215T  | HVW5PK9G          | \$2,855 | \$2,992 | DS-3HTFT           | 19.1                 | 175               | 87.5              | 2.8/5.4           |       |
|                | 1200/600(2)                 | 200     | 256T  | HVW5PK36H         | \$3,716 | \$3,890 | DS-3HTFT           | 25.5                 | 340               | 86.5              | 8.0/16.4          |       |
|                | 1200/600(2)                 | 460     | 256T  | HVW5PK36C         | \$3,441 | \$3,615 | DS-3HTFT           | 25.5                 | 340               | 86.5              | 4.1/8.6           |       |
|                | 1200/600(2)                 | 575     | 256T  | HVW5PK36G         | \$3,957 | \$4,131 | DS-3HTFT           | 25.5                 | 340               | 86.5              | 3.2/6.9           |       |
| 7 1/2 (1-7/8)  | 1800/900(2)                 | 200     | 254T  | HVW7PK9H          | \$3,692 | \$3,866 | DS-3HTFT           | 25.5                 | 300               | 91.0              | 8.8/21.8          |       |
|                | 1800/900(2)                 | 460     | 254T  | HVW7PK9C          | \$3,419 | \$3,593 | DS-3HTFT           | 25.5                 | 300               | 91.7              | 3.8/9.4           |       |
|                | 1800/900(2)                 | 575     | 254T  | HVW7PK9G          | \$3,931 | \$4,105 | DS-3HTFT           | 25.5                 | 300               | 91.0              | 2.9/7.5           |       |
|                | 1200/600(2)                 | 200     | 284T  | HVW7PK36H         | \$5,118 | \$5,339 | DS-3HTFT           | 27.0                 | 380               | 88.5              | 12.3/26.7         |       |
|                | 1200/600(2)                 | 460     | 284T  | HVW7PK36C         | \$4,740 | \$4,961 | DS-3HTFT           | 27.0                 | 380               | 87.5              | 5.7/12.2          |       |
|                | 1200/600(2)                 | 575     | 284T  | HVW7PK36G         | \$5,450 | \$5,671 | DS-3HTFT           | 27.0                 | 380               | 86.5              | 4.8/10.3          |       |

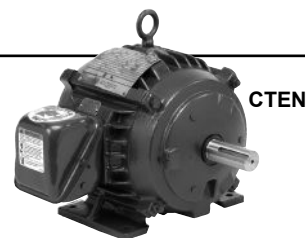
\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)



**List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \***

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 10 (2-1/2)     | 1800/900(2)                 | 200     | 256T  | HVV10PK9H         | \$4,370  | \$4,544  | DS-3HTFT           | 25.5                 | 340               | 91.7              | 12.0/27.5         |       |
|                | 1800/900(2)                 | 460     | 256T  | HVV10PK9C         | \$4,047  | \$4,221  | DS-3HTFT           | 25.5                 | 340               | 91.7              | 5.2/12.0          |       |
|                | 1800/900(2)                 | 575     | 256T  | HVV10PK9G         | \$4,654  | \$4,828  | DS-3HTFT           | 25.5                 | 340               | 91.7              | 4.1/9.8           |       |
|                | 1200/600(2)                 | 200     | 286T  | HVV10PK36H        | \$6,058  | \$6,279  | DS-3HTFT           | 27.0                 | 410               | 88.5              | 12.6/29.9         |       |
|                | 1200/600(2)                 | 460     | 286T  | HVV10PK36C        | \$5,610  | \$5,831  | DS-3HTFT           | 27.0                 | 410               | 89.5              | 7.2/15.0          |       |
|                | 1200/600(2)                 | 575     | 286T  | HVV10PK36G        | \$6,451  | \$6,672  | DS-3HTFT           | 27.0                 | 410               | 89.5              | 5.5/11.3          |       |
| 15 (3-3/4)     | 1800/900(2)                 | 200     | 284T  | HVV15PK9H         | \$6,273  | \$6,494  | DS-3HTFT           | 27.0                 | 380               | 91.0              | 16.1/44.0         |       |
|                | 1800/900(2)                 | 460     | 284T  | HVV15PK9C         | \$5,809  | \$6,030  | DS-3HTFT           | 27.0                 | 380               | 92.4              | 8.9/24.3          |       |
|                | 1800/900(2)                 | 575     | 284T  | HVV15PK9G         | \$6,679  | \$6,900  | DS-3HTFT           | 27.0                 | 380               | 92.4              | 5.6/14.8          |       |
|                | 1200/600(2)                 | 200     | 324T  | HVV15PK36H        | \$8,697  | \$8,978  | DS-3HTFT           | 30.6                 | 600               | 90.2              | 17.3/43.0         |       |
|                | 1200/600(2)                 | 460     | 324T  | HVV15PK36C        | \$8,053  | \$8,334  | DS-3HTFT           | 30.6                 | 600               | 89.5              | 7.5/18.8          |       |
|                | 1200/600(2)                 | 575     | 324T  | HVV15PK36G        | \$9,261  | \$9,542  | DS-3HTFT           | 30.6                 | 600               | 89.5              | 5.9/15.0          |       |
| 20 (5)         | 1800/900(2)                 | 200     | 286T  | HVV20PK9H         | \$7,176  | \$7,397  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 20.4/56.0         |       |
|                | 1800/900(2)                 | 460     | 286T  | HVV20PK9C         | \$6,645  | \$6,866  | DS-3HTFT           | 27.0                 | 410               | 92.4              | 8.9/24.3          |       |
|                | 1800/900(2)                 | 575     | 286T  | HVV20PK9G         | \$7,641  | \$7,862  | DS-3HTFT           | 27.0                 | 410               | 91.7              | 7.7/20.4          |       |
|                | 1200/600(2)                 | 200     | 326T  | HVV20PK36H        | \$9,949  | \$10,230 | DS-3HTFT           | 30.6                 | 625               | 91.0              | 24.2/62.0         |       |
|                | 1200/600(2)                 | 460     | 326T  | HVV20PK36C        | \$9,212  | \$9,493  | DS-3HTFT           | 30.6                 | 625               | 91.0              | 10.9/26.1         |       |
|                | 1200/600(2)                 | 575     | 326T  | HVV20PK36G        | \$10,594 | \$10,875 | DS-3HTFT           | 30.6                 | 625               | 90.2              | 8.3/20.2          |       |
| 25 / (6-1/4)   | 1800/900(2)                 | 200     | 324T  | HVV25PK9H         | \$9,743  | \$10,024 | DS-3HTFT           | 30.6                 | 600               | 91.7              | 28.0/71.0         |       |
|                | 1800/900(2)                 | 460     | 324T  | HVV25PK9C         | \$9,022  | \$9,303  | DS-3HTFT           | 30.6                 | 600               | 92.4              | 11.2/31.0         |       |
|                | 1800/900(2)                 | 575     | 324T  | HVV25PK9G         | \$10,374 | \$10,655 | DS-3HTFT           | 30.6                 | 600               | 92.4              | 8.2/24.0          |       |
|                | 1200/600(2)                 | 200     | 364T  | HVV25PK36H        | \$13,507 | \$13,817 | DS-3HTFT           | 33.6                 | 740               | 91.7              | 31.0/73.0         |       |
|                | 1200/600(2)                 | 460     | 364T  | HVV25PK36C        | \$12,507 | \$12,817 | DS-3HTFT           | 33.6                 | 740               | 91.0              | 13.0/35.0         |       |
|                | 1200/600(2)                 | 575     | 364T  | HVV25PK36G        | \$14,382 | \$14,692 | DS-3HTFT           | 33.6                 | 740               | 91.0              | 11.0/26.7         |       |
| 30 (7-1/2)     | 1800/900(2)                 | 200     | 326T  | HVV30PK9H         | \$10,287 | \$10,568 | DS-3HTFT           | 30.6                 | 625               | 92.4              | 30.0/81.0         |       |
|                | 1800/900(2)                 | 460     | 326T  | HVV30PK9C         | \$9,525  | \$9,806  | DS-3HTFT           | 30.6                 | 625               | 93.6              | 15.2/36.0         |       |
|                | 1800/900(2)                 | 575     | 326T  | HVV30PK9G         | \$10,953 | \$11,234 | DS-3HTFT           | 30.6                 | 625               | 93.0              | 11.4/29.3         |       |
|                | 1200/600(2)                 | 200     | 365T  | HVV30PK36H        | \$14,260 | \$14,570 | DS-3HTFT           | 33.6                 | 910               | 91.7              | 32.0/86.0         |       |
|                | 1200/600(2)                 | 460     | 365T  | HVV30PK36C        | \$13,205 | \$13,515 | DS-3HTFT           | 33.6                 | 910               | 90.2              | 14.4/38.0         |       |
|                | 1200/600(2)                 | 575     | 365T  | HVV30PK36G        | \$15,185 | \$15,495 | DS-3HTFT           | 33.6                 | 910               | 91.0              | 11.7/32.0         |       |
| 40 (10)        | 1800/900(2)                 | 200     | 364T  | HVV40PK9H         | \$12,987 | \$13,297 | DS-3HTFT           | 33.6                 | 740               | 92.4              | 38.0/118.0        |       |
|                | 1800/900(2)                 | 460     | 364T  | HVV40PK9C         | \$12,026 | \$12,336 | DS-3HTFT           | 33.6                 | 740               | 93.0              | 18.5/50.0         |       |
|                | 1800/900(2)                 | 575     | 364T  | HVV40PK9G         | \$13,820 | \$14,130 | DS-3HTFT           | 33.6                 | 740               | 93.0              | 40.0/15.2         |       |
|                | 1200/600(2)                 | 200     | 404T  | HVV40PK36H        | \$18,005 | \$18,424 | DS-3HTFT           | 37.7                 | 1160              | 92.4              | 45.0/126.0        |       |
|                | 1200/600(2)                 | 460     | 404T  | HVV40PK36C        | \$16,672 | \$17,091 | DS-3HTFT           | 37.7                 | 1160              | 91.0              | 18.9/50.0         |       |
|                | 1200/600(2)                 | 575     | 404T  | HVV40PK36G        | \$19,172 | \$19,591 | DS-3HTFT           | 37.7                 | 1160              | 91.7              | 15.8/42.0         |       |
| 50 (12-1/2)    | 1800/900(2)                 | 200     | 365T  | HVV50PK9H         | \$15,156 | \$15,466 | DS-3HTFT           | 33.6                 | 910               | 93.6              | 47.0/136.0        |       |
|                | 1800/900(2)                 | 460     | 365T  | HVV50PK9C         | \$14,034 | \$14,344 | DS-3HTFT           | 33.6                 | 910               | 94.5              | 22.5/58.0         |       |
|                | 1800/900(2)                 | 575     | 365T  | HVV50PK9G         | \$16,139 | \$16,449 | DS-3HTFT           | 33.6                 | 910               | 93.6              | 15.7/47.0         |       |
|                | 1200/600(2)                 | 200     | 405T  | HVV50PK36H        | \$21,013 | \$21,432 | DS-3HTFT           | 37.7                 | 1180              | 93.0              | 59.0/146.0        |       |
|                | 1200/600(2)                 | 460     | 405T  | HVV50PK36C        | \$19,456 | \$19,875 | DS-3HTFT           | 37.7                 | 1180              | 92.4              | 26.8/63.0         |       |
|                | 1200/600(2)                 | 575     | 405T  | HVV50PK36G        | \$22,374 | \$22,793 | DS-3HTFT           | 37.7                 | 1180              | 92.4              | 22.2/51.0         |       |

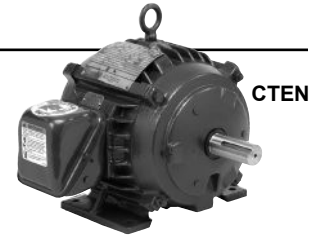
\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.



# Cooling Tower Duty Three Phase, Totally Enclosed Air Over (TEAO) Premium Efficient, 2 Speed, 2 Winding 2-100 HP

(continued)



List A: For mounting positions F1, F2, C1, C2, W1, W2, W3, W4. List B: For mounting positions W5, W6, W7, W8. \*

| HP<br>HP (Low) | RPM/RPM Low<br>(# Windings) | Voltage | Frame | Catalog<br>Number | List A   | List B   | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|----------------|-----------------------------|---------|-------|-------------------|----------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 60 (15)        | 1800/900(2)                 | 200     | 405T  | HVVW60PK9H        | \$20,304 | \$20,723 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 58.0/170.0        |       |
|                | 1800/900(2)                 | 460     | 405T  | HVVW60PK9C        | \$18,801 | \$19,220 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 26.6/73.0         |       |
|                | 1800/900(2)                 | 575     | 405T  | HVVW60PK9G        | \$21,621 | \$22,040 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 22.2/59.0         |       |
|                | 1200/600(2)                 | 200     | 444T  | HVVW60PK36H       | \$28,149 | \$28,627 | DS-3HTFT           | 45.4                 | 1660              | 93.0              | 61.0/178.0        |       |
|                | 1200/600(2)                 | 460     | 444T  | HVVW60PK36C       | \$26,064 | \$26,542 | DS-3HTFT           | 45.4                 | 1660              | 92.4              | 28.1/76.0         |       |
|                | 1200/600(2)                 | 575     | 444T  | HVVW60PK36G       | \$29,973 | \$30,451 | DS-3HTFT           | 45.4                 | 1660              | 91.7              | 22.7/63.0         |       |
| 75 (18-3/4)    | 1800/900(2)                 | 200     | 405T  | HVVW75PK9H        | \$23,564 | \$23,983 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 74.0/205.0        |       |
|                | 1800/900(2)                 | 460     | 405T  | HVVW75PK9C        | \$21,818 | \$22,237 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 31.0/89.0         |       |
|                | 1800/900(2)                 | 575     | 405T  | HVVW75PK9G        | \$25,091 | \$25,510 | DS-3HTFT           | 37.7                 | 1180              | 94.5              | 25.2/71.0         |       |
|                | 1200/600(2)                 | 200     | 445T  | HVVW75PK36H       | \$32,668 | \$33,146 | DS-3HTFT           | 45.4                 | 1700              | 93.6              | 92.0/255.0        |       |
|                | 1200/600(2)                 | 460     | 445T  | HVVW75PK36C       | \$30,248 | \$30,726 | DS-3HTFT           | 45.4                 | 1700              | 94.1              | 42.0/105.0        |       |
|                | 1200/600(2)                 | 575     | 445T  | HVVW75PK36G       | \$34,785 | \$35,263 | DS-3HTFT           | 45.4                 | 1700              | 93.6              | 35.0/89.0         |       |
| 100 (25)       | 1800/900(2)                 | 200     | 445T  | HVVW100PK9H       | \$35,239 | \$35,717 | DS-3HTFT           | 45.4                 | 1700              | 94.5              | 91.0/280.0        |       |
|                | 1800/900(2)                 | 460     | 445T  | HVVW100PK9C       | \$32,629 | \$33,107 | DS-3HTFT           | 45.4                 | 1700              | 94.5              | 38.0/115.0        |       |
|                | 1800/900(2)                 | 575     | 445T  | HVVW100PK9G       | \$37,522 | \$38,000 | DS-3HTFT           | 45.4                 | 1700              | 94.5              | 32.0/94.0         |       |
|                | 1200/600(2)                 | 200     | 447T  | HVVW100PK36H      | \$48,853 | \$49,331 | DS-3HTFT           | 48.9                 | 2025              | 93.6              | 145.0/303.0       |       |
|                | 1200/600(2)                 | 460     | 447T  | HVVW100PK36C      | \$45,235 | \$45,713 | DS-3HTFT           | 48.9                 | 2025              | 94.1              | 66.0/139.0        |       |
|                | 1200/600(2)                 | 575     | 447T  | HVVW100PK36G      | \$52,019 | \$52,497 | DS-3HTFT           | 48.9                 | 2025              | 94.1              | 55.0/111.0        |       |

## Minimum Air Velocity Required for TEAO Models

| Horsepower | Velocity (FPM)<br>4 Pole | Velocity (FPM)<br>6 Pole | Horsepower | Velocity (FPM)<br>4 Pole | Velocity (FPM)<br>6 Pole |
|------------|--------------------------|--------------------------|------------|--------------------------|--------------------------|
| 2          | 1000                     | 580                      | 25         | 1500                     | 950                      |
| 3          | 1000                     | 600                      | 30         | 1600                     | 1000                     |
| 5          | 1054                     | 700                      | 40         | 1700                     | 1100                     |
| 7.5        | 1023                     | 650                      | 50         | 1800                     | 1150                     |
| 10         | 975                      | 600                      | 60         | 1800                     | 1150                     |
| 15         | 1500                     | 650                      | 75         | 2000                     | 1300                     |
| 20         | 1700                     | 850                      | 100        | 2000                     | 1300                     |

\*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

\* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

† All marks shown within this document are properties of their respective owners.





**WE BUILD MORE THAN MOTORS.**

**WE BUILD  
EFFICIENCY.**



## Variable Frequency Drives

### AD 1000

- High Performance
- Reduced Energy Consumption
- Automatically adjusts to changing conditions in a wide variety of water, wastewater, irrigation and other pumping applications

### AD 700E

- Cost effective, easy-to-use general purpose drive
- Provides precise motor control
- Energy efficient
- Compact



# Hazardous Location

For pumps, fans, compressors, blowers, conveyors and general industrial equipment in hazardous locations as defined by class and group.



**Horsepower:** 1/4 through 200 HP,  
Single and Dual Label

**Phase:** Single and Three Phase

**RPM:** 1200, 1800 and 3600

**Voltage:** 115/208 - 230, 115/230,  
230/460, 208-230/460 and 460

**Efficiency:** NEMA Premium

**Mounting:** Footed, Footless C-Face

**Agency:** UL<sup>®†</sup> Recognized and  
CSA<sup>®†</sup> Certified



## Hazardous Location Specifications

### Division I, Class I - Flammable Gases or Vapors

Hazardous locations are characterized by an atmosphere which does or may contain gas, vapor or dust in sufficient quantities to cause explosion. The National Electrical Code (NEC<sup>®</sup>) divides these locations into classes and groups according to the type of explosive agent which may be present. Listed are some of the agents in each classification. For a complete list, see NFPA (National Fire Protection Association) publication 497M.

Underwriters Laboratories (UL<sup>†</sup>) tests motors and other devices for safety in explosive atmospheres and publishes a list of motors meeting its standards for each Class and Group. Use of UL<sup>†</sup> Listed devices does not necessarily make an installation conform to the NEC or local codes. Consult Chapter 5 of the NEC local building codes, OSHA requirements and insurance inspectors for detailed data on proper procedures.

Gases and vapors are grouped by severity of expected explosion pressure and extent of flame propagation between parts. For Class I applications, Nidec Motor Corporation offers hazardous location products for:

- Group C – ethyl-ether, ethylene and cycle propane
- Group D – gasoline, hexane, naphtha, benzene, butane, propane, alcohol, lacquer solvent vapors and natural gas

### Division I, Class II - Combustible Dusts

Dusts are grouped by combustibility, penetrability between parts, blanketing effect, ignition temperature and ability to contribute to creation of an ignition source through abrasiveness or electrical

conductivity. For Class II applications, Nidec Motor Corporation offers hazardous location products for:

- Group F – carbon black coal or coke
- Group G – flour, starch or grain

### Temperature

Hazardous location motors are classified by temperature code. This code indicates the maximum surface temperature for all conditions including burnout, overload, single phasing and locked rotor. The maximum surface temperature, or "T" code, must be identified on the nameplate.

All hazardous location motors have a temperature code that defines the maximum allowable frame temperature.

| Maximum Temperature (For All Conditions) |            | T-Code |
|------------------------------------------|------------|--------|
| Celsius                                  | Fahrenheit |        |
| 280*                                     | 536        | T2A*** |
| 260*                                     | 500        | T2B*** |
| 230**                                    | 446        | T2C*** |
| 215**                                    | 419        | T2D*** |
| 200**                                    | 392        | T3     |
| 180**                                    | 356        | T3A    |
| 165**                                    | 329        | T3B    |
| 160**                                    | 320        | T3C    |
| 135**                                    | 275        | T4     |
| 120**                                    | 248        | T4A    |
| 100**                                    | 212        | T5     |

\*Class I, Group D only, requires caution statement

\*\*Requires thermostats

\*\*\*Not applicable to motors for use in Class II locations

† All marks shown within this document are properties of their respective owners.

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA<sup>®</sup> Premium Efficient – IE3, Dual Label

## APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.


**NEMA**  
**Premium**
**LE, FL**

## FEATURES:

### For all Products Listed in this Section:

- UL<sup>®</sup> Listed & CSA<sup>®</sup> Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below

### For Catalog Numbers Beginning with "X" or "Y":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sinewave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

### For Catalog Numbers Beginning with "XS":

- Aluminum End Brackets & Conduit Box
- Class B Insulation
- Steel Frame

| HP    | RPM  | Voltage     | Frame | Catalog Number | Class I Group | Class II Group | Temp Code | List    | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------------|----------------|-----------|---------|-----------------|-------------------|----------------|----------------|----------------|-----------|
| 1/2   | 1800 | 208-230/460 | 56    | XS12SA2D       | D             | EFG            | T3B       | \$505   | DS-3CXD         | 12.4              | 26             | -              | 2.0-1.9/1.0    | 13,24     |
|       | 1200 | 208-230/460 | 56    | XS12SA3A       | CD            | EFG            | T3B       | \$615   | DS-3CXD         | 13.2              | 32             | -              | 2.2-2.3/1.1    | 13,24     |
| 3/4   | 1800 | 208-230/460 | 56    | XS34SA2A       | D             | EFG            | T3B       | \$576   | DS-3CXD         | 13.7              | 32             | -              | 2.8-2.9/1.4    | 13,24     |
|       | 1200 | 208-230/460 | 143T  | XS34S3A14      | CD            | EFG            | T3C       | \$700   | DS-3CXD         | 15.0              | 32             | -              | 3.1-3.2/1.6    | 13        |
| 1     | 1800 | 230/460     | 143T  | X1P2B          | D             | FG             | T3B       | \$729   | DS-3CXD         | 12.9              | 60             | 85.5           | 3/1.5          | 51        |
|       | 1200 | 230/460     | 145T  | X1P3B          | D             | FG             | T3B       | \$991   | DS-3CXD         | 12.9              | 80             | 82.5           | 3.8/1.9        |           |
|       | 900  | 230/460     | 182T  | X1E4B          | D             | FG             | T3B       | \$1,526 | DS-3CXD         | 16.0              | 90             | 74.0           | 4.7/2.4        | NNP       |
|       | 900  | 230/460     | 182T  | X1S4B          | D             | FG             | T3B       | \$1,526 | DS-3CXD         | 14.6              | 90             | 66.0           | 5.1/2.6        | NNP       |
| 1 1/2 | 3600 | 230/460     | 143T  | X32P1B         | D             | FG             | T3B       | \$840   | DS-3CXD         | 12.9              | 70             | 84.0           | 3.9/1.9        |           |
|       | 1800 | 208-230/460 | 145T  | XS32P2A14      | D             | FG             | T3B       | \$808   | DS-3CXD         | 15.5              | 32             | 86.5           | 4.7-4.6/2.3    |           |
|       | 1800 | 230/460     | 145T  | X32P2B         | D             | FG             | T3B       | \$808   | DS-3CXD         | 12.9              | 80             | 86.5           | 4.3/2.1        |           |
|       | 1200 | 230/460     | 182T  | X32P3B         | D             | FG             | T3B       | \$1,093 | DS-3CXD         | 16.0              | 90             | 87.5           | 4.6/2.3        |           |
|       | 900  | 230/460     | 184T  | X32E4B         | D             | FG             | T3B       | \$1,525 | DS-3CXD         | 16.0              | 105            | 77.0           | 6.6/3.3        | NNP       |
| 2     | 3600 | 230/460     | 145T  | X2P1B          | D             | FG             | T3B       | \$998   | DS-3CXD         | 12.9              | 75             | 85.5           | 4.9/2.4        |           |
|       | 1800 | 208-230/460 | 56H   | XS2SA2AH       | CD            | EFG            | T3C       | \$886   | DS-3CXD         | 16.7              | 32             | -              | 6.7-6.4/3.2    | 13,24,NNP |
|       | 1800 | 230/460     | 145T  | X2P2B          | D             | FG             | T3B       | \$886   | DS-3CXD         | 12.9              | 80             | 86.5           | 5.2/2.6        |           |
|       | 1200 | 230/460     | 184T  | X2P3B          | D             | FG             | T3B       | \$1,216 | DS-3CXD         | 16.0              | 100            | 88.5           | 5.8/2.9        |           |
|       | 900  | 230/460     | 213T  | X2E4B          | D             | FG             | T3B       | \$1,880 | DS-3CXD         | 19.2              | 165            | 82.5           | 6.9/3.5        | NNP       |
| 3     | 3600 | 230/460     | 182T  | X3P1B          | D             | FG             | T3B       | \$1,116 | DS-3CXD         | 16.0              | 85             | 86.5           | 7.8/3.9        |           |
|       | 1800 | 230/460     | 182T  | X3P2B          | D             | FG             | T3B       | \$986   | DS-3CXD         | 16.0              | 96             | 89.5           | 7.7/3.8        |           |
|       | 1200 | 230/460     | 213T  | X3P3B          | D             | FG             | T3B       | \$1,503 | DS-3CXD         | 19.2              | 151            | 89.5           | 8.8/4.4        |           |
|       | 900  | 230/460     | 215T  | X3E4B          | D             | FG             | T3B       | \$2,097 | DS-3CXD         | 19.2              | 300            | 84.0           | 10.4/5.2       | NNP       |
| 5     | 3600 | 230/460     | 184T  | X5P1B          | D             | FG             | T3B       | \$1,400 | DS-3CXD         | 16.0              | 95             | 88.5           | 12/6           |           |
|       | 1800 | 230/460     | 184T  | X5P2B          | D             | FG             | T3B       | \$1,147 | DS-3CXD         | 16.0              | 110            | 89.5           | 12.5/6.2       |           |
|       | 1200 | 230/460     | 215T  | X5P3B          | D             | FG             | T3B       | \$2,152 | DS-3CXD         | 19.2              | 157            | 89.5           | 13.9/7         |           |
|       | 900  | 230/460     | 254T  | X5E4B          | CD            | FG             | T3C       | \$3,239 | DS-3CXD         | 25.3              | 310            | 85.5           | 17.5/8.7       | NNP       |
| 7 1/2 | 3600 | 230/460     | 213T  | X7P1B          | D             | FG             | T3B       | \$1,730 | DS-3CXD         | 19.2              | 156            | 89.5           | 18.6/9.3       |           |
|       | 1800 | 230/460     | 213T  | X7P2B          | D             | FG             | T3B       | \$1,564 | DS-3CXD         | 19.2              | 160            | 91.7           | 18.6/9.3       |           |
|       | 1200 | 230/460     | 254T  | X7P3B          | CD            | FG             | T3C       | \$2,788 | DS-3CXD         | 25.3              | 300            | 91.0           | 18.8/9.4       |           |
| 10    | 3600 | 230/460     | 215T  | X10P1B         | D             | FG             | T3B       | \$2,027 | DS-3CXD         | 19.2              | 175            | 90.2           | 23.6/11.8      |           |
|       | 1800 | 230/460     | 215T  | X10P2B         | D             | FG             | T3B       | \$1,889 | DS-3CXD         | 19.2              | 194            | 91.7           | 23.9/12        |           |
|       | 1200 | 230/460     | 256T  | X10P3B         | CD            | FG             | T3C       | \$3,368 | DS-3CXD         | 25.3              | 320            | 91.0           | 24.8/12.4      |           |

Note 13 Steel Frame Construction  
Note 24 Automatic Reset Thermal Protector Overload

Note 51 Equipped with Winding Thermostat  
Note NNP Non-NEMA<sup>®</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA<sup>®</sup> Premium Efficient – IE3, Dual Label

(continued)



**NEMA**  
**Premium**

LE, FL

| HP  | RPM  | Voltage | Frame | Catalog Number | Class I Group | Class II Group | Temp Code | List     | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|---------------|----------------|-----------|----------|-----------------|-------------------|----------------|----------------|----------------|-------|
| 15  | 3600 | 230/460 | 254T  | X15P1B         | CD            | FG             | T3C       | \$2,817  | DS-3CXD         | 25.3              | 320            | 91.0           | 35/17.5        |       |
|     | 1800 | 230/460 | 254T  | X15P2B         | CD            | FG             | T3C       | \$2,533  | DS-3CXD         | 25.3              | 316            | 92.4           | 37/18.3        |       |
|     | 1800 | 575     | 254T  | X15P2G         | CD            | FG             | T3C       | \$2,533  | DS-3CXD         | 25.3              | 300            | 92.4           | 14.6           |       |
|     | 1200 | 230/460 | 284T  | X15P3B         | CD            | FG             | T3C       | \$4,617  | DS-3CXD         | 27.0              | 390            | 91.7           | 37/18.2        |       |
| 20  | 3600 | 230/460 | 256T  | X20P1B         | CD            | FG             | T3C       | \$3,487  | DS-3CXD         | 25.3              | 375            | 91.0           | 46/23.1        |       |
|     | 1800 | 230/460 | 256T  | X20P2B         | CD            | FG             | T3C       | \$3,122  | DS-3CXD         | 25.3              | 375            | 93.0           | 48/23.8        |       |
|     | 1800 | 575     | 256T  | X20P2G         | CD            | FG             | T3C       | \$3,122  | DS-3CXD         | 25.3              | 375            | 93.0           | 19             |       |
|     | 1200 | 230/460 | 286T  | X20P3B         | CD            | FG             | T3C       | \$5,593  | DS-3CXD         | 27.0              | 458            | 91.7           | 49/24.4        |       |
| 25  | 3600 | 230/460 | 284TS | X25P1BS        | CD            | FG             | T3C       | \$4,208  | DS-3CXD         | 25.6              | 350            | 91.7           | 57/28.7        |       |
|     | 1800 | 230/460 | 284T  | X25P2B         | CD            | FG             | T3C       | \$3,685  | DS-3CXD         | 27.0              | 286            | 93.6           | 58/28.9        |       |
|     | 1800 | 575     | 284T  | X25P2G         | CD            | FG             | T3C       | \$3,685  | DS-3CXD         | 27.0              | 390            | 93.6           | 23             |       |
|     | 1200 | 230/460 | 324T  | X25P3B         | CD            | FG             | T3C       | \$6,707  | DS-3CXD         | 30.7              | 575            | 93.0           | 61/31          |       |
| 30  | 3600 | 230/460 | 286TS | X30P1BS        | CD            | FG             | T3C       | \$4,934  | DS-3CXD         | 25.6              | 410            | 91.7           | 69/34          |       |
|     | 1800 | 230/460 | 286T  | X30P2B         | CD            | FG             | T3C       | \$4,298  | DS-3CXD         | 27.0              | 433            | 93.6           | 69/34          |       |
|     | 1800 | 575     | 286T  | X30P2G         | CD            | FG             | T3C       | \$4,298  | DS-3CXD         | 27.0              | 460            | 93.0           | 27.6           |       |
|     | 1200 | 230/460 | 326T  | X30P3B         | CD            | FG             | T3C       | \$7,914  | DS-3CXD         | 30.7              | 685            | 93.0           | 74/37          |       |
| 40  | 3600 | 230/460 | 324TS | X40P1BS        | CD            | FG             | T3C       | \$6,426  | DS-3CXD         | 29.2              | 564            | 92.4           | 90/45          |       |
|     | 1800 | 230/460 | 324T  | X40P2B         | CD            | FG             | T3C       | \$5,656  | DS-3CXD         | 30.7              | 590            | 94.1           | 90/45          |       |
|     | 1800 | 575     | 324T  | X40P2G         | CD            | FG             | T3C       | \$5,656  | DS-3CXD         | 30.7              | 575            | 93.6           | 36             |       |
|     | 1200 | 230/460 | 364T  | X40P3B         | CD            | FG             | T3C       | \$10,476 | DS-3CXD         | 32.3              | 725            | 94.1           | 92/46          |       |
| 50  | 3600 | 230/460 | 326TS | X50P1BS        | CD            | FG             | T3C       | \$8,269  | DS-3CXD         | 29.2              | 650            | 93.0           | 114/57         |       |
|     | 1800 | 230/460 | 326T  | X50P2B         | CD            | FG             | T3C       | \$6,944  | DS-3CXD         | 30.7              | 650            | 94.5           | 112/56         |       |
|     | 1800 | 460     | 326T  | X50P2C         | CD            | FG             | T3C       | \$6,944  | DS-3CXD         | 30.7              | 650            | 94.5           | 56             |       |
|     | 1800 | 575     | 326T  | X50P2G         | CD            | FG             | T3C       | \$6,944  | DS-3CXD         | 30.7              | 650            | 94.1           | 45             |       |
|     | 1200 | 230/460 | 365T  | X50P3B         | CD            | FG             | T3C       | \$12,069 | DS-3CXD         | 32.3              | 950            | 94.1           | 115/58         |       |
| 60  | 3600 | 230/460 | 364TS | X60P1BS        | CD            | FG             | T3C       | \$10,848 | DS-3CXD         | 30.1              | 750            | 93.6           | 136/68         |       |
|     | 1800 | 230/460 | 364T  | X60P2B         | CD            | FG             | T3C       | \$9,924  | DS-3CXD         | 32.3              | 810            | 95.0           | 136/68         |       |
|     | 1800 | 575     | 364T  | X60P2G         | CD            | FG             | T3C       | \$9,924  | DS-3CXD         | 32.3              | 725            | 95.0           | 54             |       |
| 75  | 3600 | 230/460 | 365TS | X75P1BS        | CD            | FG             | T3C       | \$13,631 | DS-3CXD         | 30.1              | 850            | 93.6           | 166/83         |       |
|     | 1800 | 230/460 | 365T  | X75P2B         | CD            | FG             | T3C       | \$12,622 | DS-3CXD         | 32.3              | 850            | 95.4           | 169/84         |       |
|     | 1800 | 575     | 365T  | X75P2G         | CD            | FG             | T3C       | \$12,622 | DS-3CXD         | 32.3              | 875            | 95.4           | 67             |       |
| 100 | 1800 | 230/460 | 405T  | X100P2B        | CD            | FG             | T3C       | \$14,501 | DS-3CXD         | 36.5              | 1170           | 95.4           | 225/113        |       |
|     | 1800 | 575     | 405T  | X100P2G        | CD            | FG             | T3C       | \$14,501 | DS-3CXD         | 36.5              | 1225           | 95.0           | 90             |       |
|     | 1200 | 460     | 444T  | X100P3C        | D             | FG             | T3B       | \$21,232 | DS-3CXD         | 45.8              | 1485           | 95.0           | 124            |       |
| 125 | 1800 | 460     | 444T  | X125P2C        | D             | FG             | T3B       | \$17,910 | DS-3CXD         | 45.8              | 1560           | 95.4           | 147            |       |
|     | 1800 | 575     | 444T  | X125P2G        | D             | FG             | T3B       | \$17,910 | DS-3CXD         | 45.8              | 1575           | 95.4           | 118            |       |
| 150 | 1800 | 460     | 445T  | X150P2C        | D             | FG             | T3B       | \$21,257 | DS-3CXD         | 45.8              | 1625           | 95.8           | 171            |       |
|     | 1800 | 575     | 445T  | X150P2G        | D             | FG             | T3B       | \$21,257 | DS-3CXD         | 45.8              | 1800           | 95.8           | 137            |       |
| 200 | 1800 | 460     | 447T  | X200P2C        | D             | FG             | T3B       | \$25,899 | DS-3CXD         | 49.4              | 2200           | 96.2           | 227            |       |
|     | 1800 | 575     | 447T  | X200P2G        | D             | FG             | T3B       | \$25,899 | DS-3CXD         | 49.4              | 2100           | 95.8           | 180            |       |

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GEN. PURPOSE  
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GENERAL PURPOSE  
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HOSTILE DUTY  
GENERAL PURPOSE  
CORRO-DUTY™  
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841 PLUS™  
GENERAL PURPOSE  
OPEN DRIPPROOF  
GENERAL PURPOSE  
HAZARDOUS  
LOCATION  
GENERAL PURPOSE  
AUTOMOTIVE DUTY  
COOLING-TOWER  
DUTY  
HAZARDOUS  
LOCATION  
C-FACE  
MOTORS  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient – IE3, Single Label, CORRO-DUTY®

## APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

## FEATURES:

- UL®† Listed & CSA®† Certified
- All Cast Iron Construction (140 Frame Has Steel Base)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreaseable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Sealed Bearings 56-140, Shielded 180-360, Open 400-440 Frames
- Class F Insulation, Listed For Ambients -25°C To +40°C
- Brass Breather Plug
- Suitable For Inverter Use Per Policy Statement In Introduction, 2:1 CT
- Class I (Group D), T2B Temperature Code
- 1.15 Service Factor On 60 Hertz Sinewave Power


**NEMA**  
Premium

 FLC,  
LCE

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/2   | 1800 | 208-230/460 | 56    | Y12S2B         | \$658   | DS-3F           | 1.00 | 11.6              | 49             | -              | 1.8-1.7/0.9    | 13,NNP |
| 3/4   | 1800 | 230/460     | 56    | Y34S2B         | \$694   | DS-3F           | 1.00 | 11.6              | 51             | -              | 2.7/1.3        | 13,NNP |
| 1     | 1800 | 230/460     | 143T  | YC1P2B         | \$872   | DS-3CX          | 1.15 | 13.1              | 80             | 85.5           | 3/1.5          |        |
|       | 1200 | 230/460     | 145T  | YC1P3B         | \$1,022 | DS-3CX          | 1.00 | 13.1              | 80             | 82.5           | 3.8/1.9        |        |
|       | 900  | 230/460     | 182T  | YC1E4B         | \$1,583 | DS-3CX          | 1.15 | 16.1              | 100            | 74.0           | 4.7/2.4        | NNP,LA |
| 1 1/2 | 3600 | 230/460     | 143T  | YC32P1B        | \$913   | DS-3CX          | 1.15 | 13.1              | 70             | 84.0           | 3.9/1.9        |        |
|       | 1800 | 230/460     | 145T  | YC32P2B        | \$917   | DS-3CX          | 1.15 | 13.1              | 80             | 86.5           | 4.3/2.1        |        |
|       | 1200 | 230/460     | 182T  | YC32P3B        | \$1,106 | DS-3CX          | 1.00 | 16.1              | 100            | 87.5           | 4.6/2.3        |        |
|       | 900  | 230/460     | 184T  | YC32E4B        | \$2,208 | DS-3CX          | 1.15 | 16.1              | 108            | 77.0           | 6.6/3.3        | NNP,LA |
| 2     | 3600 | 230/460     | 145T  | YC2P1B         | \$1,017 | DS-3CX          | 1.15 | 13.1              | 75             | 86.5           | 4.9/2.4        |        |
|       | 1800 | 230/460     | 145T  | YC2P2B         | \$980   | DS-3CX          | 1.15 | 13.1              | 80             | 86.5           | 5.2/2.6        |        |
|       | 1200 | 230/460     | 184T  | YC2P3B         | \$1,281 | DS-3CX          | 1.15 | 16.1              | 110            | 88.5           | 5.8/2.9        |        |
|       | 900  | 230/460     | 213T  | YC2E4B         | \$2,363 | DS-3CX          | 1.15 | 20.0              | 165            | 82.5           | 6.9/3.5        | NNP,LA |
| 3     | 3600 | 230/460     | 182T  | YC3P1B         | \$1,147 | DS-3CX          | 1.15 | 16.1              | 95             | 86.5           | 7.8/3.9        |        |
|       | 1800 | 230/460     | 182T  | YC3P2B         | \$1,149 | DS-3CX          | 1.15 | 16.1              | 96             | 89.5           | 7.7/3.8        |        |
|       | 1200 | 230/460     | 213T  | YC3P3B         | \$1,643 | DS-3CX          | 1.15 | 20.0              | 151            | 89.5           | 8.8/4.4        |        |
|       | 900  | 230/460     | 215T  | YC3E4B         | \$2,934 | DS-3CX          | 1.15 | 20.0              | 300            | 84.0           | 10.4/5.2       | NNP,LA |
| 5     | 3600 | 230/460     | 184T  | YC5P1B         | \$1,445 | DS-3CX          | 1.15 | 16.1              | 104            | 88.5           | 12/6           |        |
|       | 1800 | 230/460     | 184T  | YC5P2B         | \$1,279 | DS-3CX          | 1.15 | 16.1              | 110            | 89.5           | 12.5/6.2       |        |
|       | 1200 | 230/460     | 215T  | YC5P3B         | \$2,184 | DS-3CX          | 1.15 | 20.0              | 157            | 89.5           | 13.9/7         |        |
|       | 900  | 230/460     | 254T  | YC5E4B         | \$4,010 | DS-3CX          | 1.15 | 25.0              | 310            | 85.5           | 17.5/8.7       | NNP,LA |
| 7 1/2 | 3600 | 230/460     | 213T  | YC7P1B         | \$1,683 | DS-3CX          | 1.15 | 20.0              | 156            | 89.5           | 18.6/9.3       |        |
|       | 1800 | 230/460     | 213T  | YC7P2B         | \$1,757 | DS-3CX          | 1.00 | 20.0              | 160            | 91.7           | 18.6/9.3       |        |
|       | 1200 | 230/460     | 254T  | YC7P3B         | \$2,919 | DS-3CX          | 1.00 | 25.0              | 300            | 91.0           | 18.8/9.4       |        |
|       | 900  | 230/460     | 256T  | YC7E4B         | \$4,943 | DS-3CX          | 1.15 | 25.0              | 375            | 85.5           | 23.6/11.8      | NNP,LA |
| 10    | 3600 | 230/460     | 215T  | YC10P1B        | \$2,129 | DS-3CX          | 1.00 | 20.0              | 175            | 90.2           | 23.6/11.8      |        |
|       | 1800 | 230/460     | 215T  | YC10P2B        | \$2,084 | DS-3CX          | 1.15 | 20.0              | 194            | 91.7           | 23.9/12        |        |
|       | 1200 | 230/460     | 256T  | YC10P3B        | \$3,804 | DS-3CX          | 1.15 | 25.0              | 320            | 91.0           | 24.8/12.4      |        |
|       | 900  | 230/460     | 284T  | YC10E4B        | \$6,027 | DS-3CX          | 1.15 | 27.4              | 380            | 88.5           | 28.5/14.3      | NNP,LA |
| 15    | 3600 | 230/460     | 254T  | YC15P1B        | \$2,851 | DS-3CX          | 1.15 | 25.0              | 320            | 91.0           | 35/17.5        |        |
|       | 1800 | 230/460     | 254T  | YC15P2B        | \$2,735 | DS-3CX          | 1.15 | 25.0              | 316            | 92.4           | 37/18.3        |        |
|       | 1200 | 230/460     | 284T  | YC15P3B        | \$4,714 | DS-3CX          | 1.15 | 27.4              | 390            | 91.7           | 37/18.3        |        |
| 20    | 3600 | 230/460     | 256T  | YC20P1B        | \$3,656 | DS-3CX          | 1.00 | 25.0              | 375            | 91.0           | 46/23.1        |        |
|       | 1800 | 230/460     | 256T  | YC20P2B        | \$3,323 | DS-3CX          | 1.00 | 25.0              | 375            | 93.0           | 48/23.8        |        |
|       | 1200 | 230/460     | 286T  | YC20P3B        | \$5,563 | DS-3CX          | 1.15 | 27.4              | 458            | 91.7           | 49/24.4        |        |
|       | 900  | 230/460     | 324T  | YC20E4B        | \$9,400 | DS-3CX          | 1.15 | 30.7              | 550            | 89.5           | 55/27.3        | NNP,LA |

Note 13 Steel Frame Construction  
 Note LA Limited Availability  
 Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.





# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location EMA<sup>®†</sup> Premium Efficient – IE3, Single Label, CORRO-DUTY<sup>®</sup>

(continued)



**NEMA**  
**Premium**

FLC,  
LCE

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 25  | 3600 | 230/460 | 284TS | YC25P1BS       | \$4,457  | DS-3CX          | 1.15 | 26.0              | 350            | 91.7           | 57/28.7        |        |
|     | 1800 | 230/460 | 284T  | YC25P2B        | \$3,981  | DS-3CX          | 1.15 | 27.4              | 150            | 93.6           | 58/28.9        |        |
|     | 1200 | 230/460 | 324T  | YC25P3B        | \$6,956  | DS-3CX          | 1.15 | 30.7              | 575            | 93.0           | 61/31          |        |
|     | 900  | 230/460 | 326T  | YC25E4B        | \$10,908 | DS-3CX          | 1.15 | 30.7              | 645            | 90.2           | 68/34          | NNP,LA |
| 30  | 3600 | 230/460 | 286TS | YC30P1BS       | \$4,835  | DS-3CX          | 1.00 | 26.0              | 410            | 91.7           | 69/34          |        |
|     | 1800 | 230/460 | 286T  | YC30P2B        | \$4,671  | DS-3CX          | 1.15 | 27.4              | 433            | 93.6           | 69/34          |        |
|     | 1200 | 230/460 | 326T  | YC30P3B        | \$8,236  | DS-3CX          | 1.00 | 30.7              | 685            | 93.0           | 74/37          |        |
| 40  | 3600 | 230/460 | 324TS | YC40P1BS       | \$6,466  | DS-3CX          | 1.15 | 29.2              | 550            | 92.4           | 90/45          |        |
|     | 1800 | 230/460 | 324T  | YC40P2B        | \$6,176  | DS-3CX          | 1.15 | 30.7              | 590            | 94.1           | 90/45          |        |
|     | 1200 | 230/460 | 364T  | YC40P3B        | \$10,863 | DS-3CX          | 1.15 | 33.1              | 725            | 94.1           | 92/46          |        |
| 50  | 3600 | 230/460 | 326TS | YC50P1BS       | \$8,520  | DS-3CX          | 1.00 | 29.2              | 640            | 93.0           | 114/57         |        |
|     | 1800 | 230/460 | 326T  | YC50P2B        | \$7,639  | DS-3CX          | 1.15 | 30.7              | 650            | 94.5           | 112.0/56.0     |        |
|     | 1200 | 230/460 | 365T  | YC50P3B        | \$12,414 | DS-3CX          | 1.00 | 33.1              | 950            | 94.1           | 115/58         |        |
| 60  | 3600 | 230/460 | 364TS | YC60P1BS       | \$12,381 | DS-3CX          | 1.15 | 30.9              | 750            | 93.6           | 136/68         |        |
|     | 1800 | 230/460 | 364T  | YC60P2B        | \$11,342 | DS-3CX          | 1.15 | 33.1              | 810            | 95.0           | 136/68         |        |
|     | 1200 | 230/460 | 404T  | YC60P3B        | \$14,143 | DS-3CX          | 1.00 | 12.3              | 1100           | 94.5           | 139/70         |        |
| 75  | 3600 | 230/460 | 365TS | YC75P1BS       | \$14,435 | DS-3CX          | 1.00 | 30.9              | 850            | 93.6           | 166/83         |        |
|     | 1800 | 230/460 | 365T  | YC75P2B        | \$14,076 | DS-3CX          | 1.00 | 33.1              | 850            | 95.4           | 169/84         |        |
|     | 1200 | 230/460 | 405T  | YC75P3B        | \$17,169 | DS-3CX          | 1.15 | 13.8              | 1200           | 94.5           | 177.0/88.0     |        |
| 100 | 1800 | 230/460 | 405T  | YC100P2B       | \$17,179 | DS-3CX          | 1.15 | 13.8              | 1244           | 95.4           | 225/113        |        |

Note LA Limited Availability

Note NNP Non-NEMA<sup>®†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



GEN. PURPOSE  
UNIMOUNT  
GENERAL PURPOSE  
STEEL EDGE™  
GENERAL PURPOSE  
HOSTILE DUTY  
GENERAL PURPOSE  
CORRO-DUTY™  
GENERAL PURPOSE  
841 PLUS™  
GENERAL PURPOSE  
OPEN DRIPPROOF  
GENERAL PURPOSE  
HAZARDOUS  
LOCATION  
GENERAL PURPOSE  
AUTOMOTIVE DUTY  
COOLING-TOWER  
DUTY  
HAZARDOUS  
LOCATION  
C-FACE  
MOTORS  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location Dual & Single Label, C-Face

## APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

## FEATURES:

### For all Products Listed in this Section:

- UL® Listed & CSA® Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

### For Catalog Numbers Beginning with "X" or "Y":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sine Wave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

### For Catalog Numbers Beginning with "XS":

- Aluminum End Brackets & Conduit Box
- Class B Insulation
- Steel Frame



EF, LF

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/3   | 1800 | 208-230/460 | 56C   | XS13SA2DCR     | \$490   | DS-3CXD         | 1.15 | 13.3              | 29             | -              | 1.4-1.3/0.65   | 13,24  |
|       | 1800 | 230/460     | 56C   | Y13S2BCR       | \$638   | DS-3F           | 1.00 | 11.6              | 49             | 74.0           | 1.5/0.7        |        |
| 1/2   | 1800 | 208-230/460 | 56C   | XS12SA2DCR     | \$530   | DS-3CXD         | 1.15 | 13.3              | 30             | -              | 2.0-1.9/1.0    |        |
|       | 1800 | 230/460     | 56C   | Y12S2BCR       | \$672   | DS-3F           | 1.00 | 11.6              | 48             | 77.0           | 1.7/0.9        |        |
| 3/4   | 3600 | 208-230/460 | 56C   | XS34S1ACR      | \$630   | DS-3CXD         | 1.15 | 13.3              | 32             | -              | 2.7-2.6/1.3    |        |
|       | 1800 | 208-230/460 | 56C   | XS34SA2ACR     | \$601   | DS-3CXD         | 1.15 | 14.3              | 32             | -              | 2.8-2.9/1.4    | 13,24  |
|       | 1800 | 230/460     | 56C   | Y34S2BCR       | \$708   | DS-3F           | 1.00 | 11.6              | 55             | 78.5           | 2.7/1.3        |        |
| 1     | 3600 | 208-230/460 | 56C   | XS1S1ACR       | \$576   | DS-3CXD         | 1.15 | 13.8              | 32             | -              | 3.2-3.0/1.5    | LA     |
|       | 1800 | 208-230/460 | 143TC | XS1P2ACR       | \$760   | DS-3CXD         | 1.15 | 15.3              | 42             | 85.5           | 3.3-3.3/1.6    |        |
|       | 1800 | 208-230/460 | 56C   | XS1PA2ACR      | \$800   | DS-3CXD         | 1.15 | 14.8              | 40             | 85.5           | 3.2-3.1/1.5    | 13,24  |
|       | 1800 | 208-230/460 | 56C   | XS1SA2ACR      | \$742   | DS-3CXD         | 1.15 | 14.3              | 32             | 82.5           | 3.4-3.3/1.7    | LA     |
|       | 1800 | 230/460     | 143TC | X1E2BCR        | \$680   | DS-3CX          | 1.15 | 13.3              | 60             | 85.5           | 3/1.5          | 51, LA |
|       | 1800 | 230/460     | 143TC | X1P2BCR        | \$779   | DS-3CXD         | 1.00 | 13.3              | 60             | 85.5           | 3/1.5          |        |
| 1 1/2 | 1800 | 208-230/460 | 143TC | XS32P2ACR      | \$838   | DS-3CXD         | 1.15 | 15.8              | 50             | 86.5           | 4.9-4.8/2.4    |        |
|       | 1800 | 230/460     | 145TC | X32E2BCR       | \$746   | DS-3CXD         | 1.15 | 13.4              | 75             | 86.5           | 4.3/2.1        | LA     |
|       | 1800 | 230/460     | 145TC | X32P2BCR       | \$852   | DS-3CXD         | 1.00 | 13.3              | 75             | 86.5           | 4.3/2.1        |        |
| 2     | 1800 | 208-230/460 | 145TC | XS2P2ACR       | \$910   | DS-3CXD         | 1.15 | 15.8              | 45             | 86.5           | 6.2-6.0/3.0    |        |
|       | 1800 | 230/460     | 145TC | X2E2BCR        | \$909   | DS-3CXD         | 1.00 | 13.4              | 75             | 86.5           | 5.6/2.8        | LA     |
|       | 1800 | 230/460     | 145TC | X2P2BCR        | \$925   | DS-3CXD         | 1.00 | 13.3              | 75             | 86.5           | 5.2/2.6        |        |
| 3     | 1800 | 230/460     | 182TC | X3P2BCR        | \$1,066 | DS-3CXD         | 1.15 | 16.3              | 105            | 89.5           | 7.7/3.8        |        |
|       | 1800 | 230/460     | 184TC | X5E2BCR        | \$1,070 | DS-3CXD         | 1.00 | 16.3              | 118            | 87.5           | 12.7/6.4       | LA     |
| 5     | 1800 | 230/460     | 184TC | X5P2BCR        | \$1,216 | DS-3CXD         | 1.00 | 16.3              | 118            | 89.5           | 12.5/6.2       |        |
|       | 1800 | 230/460     | 213TC | X7E2BCR        | \$1,443 | DS-3CXD         | 1.00 | 20.0              | 160            | 89.5           | 18.6/9.3       | LA     |
| 7 1/2 | 1800 | 230/460     | 213TC | X7P2BCR        | \$1,604 | DS-3CXD         | 1.00 | 20.0              | 160            | 91.7           | 18.6/9.3       |        |
|       | 1800 | 230/460     | 215TC | X10E2BCR       | \$1,720 | DS-3CXD         | 1.00 | 20.0              | 190            | 90.2           | 25.5/12.8      | LA     |
| 10    | 1800 | 230/460     | 215TC | X10P2BCR       | \$1,906 | DS-3CXD         | 1.00 | 20.0              | 190            | 91.7           | 23.9/12        |        |
|       | 1800 | 230/460     | 254TC | X15E2BCR       | \$2,330 | DS-3CXD         | 1.00 | 26.1              | 316            | 91.0           | 37/18.5        | LA     |
| 15    | 1800 | 230/460     | 254TC | X15P2BCR       | \$2,557 | DS-3CXD         | 1.00 | 25.6              | 316            | 92.4           | 37/18.3        |        |

Note 13 Steel Frame Construction  
Note 24 Automatic Reset Thermal Protector Overload

Note 51 Equipped with Winding Thermostat  
Note LA Limited Availability

† All marks shown within this document are properties of their respective owners.



# Special Application Close Coupled Pump Three Phase

## Div. 1 Hazardous Duty, Dual Label



### APPLICATIONS:

For the specific requirements of centrifugal pumps located in hazardous locations as defined by Class and Group.

### FEATURES:

- UL<sup>®</sup> Listed & CSA<sup>®</sup> Certified
- Cast Iron Frame, End Brackets & Conduit Box
- Stainless Steel Nameplate & Zinc Plated Hardware
- Cast Iron Inner Bearing Caps
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance On 60 Hertz Sine Wave Power
- Class I Group D, Class II Group F&G, T3B
- Regreasable Bearings, Lifting Provisions
- Double Shielded Bearings
- 1.0 Service Factor at 60 Hertz
- Class F Insulation
- "JM" Shaft for Mechanical Seal
- Conversion Kits: Cast Iron Fan Cover

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 3     | 3600 | 230/460 | 182JM | XJ3P1BM        | \$1,255 | DS-3PT          | 1.00 | 18.4              | 90             | 86.5           | 7.8/3.9        |       |
|       | 1800 | 230/460 | 182JM | XJ3E2BM        | \$925   | DS-3PT          | 1.15 | 18.4              | 96             | 87.5           | 8.2/4.1        |       |
|       | 1800 | 230/460 | 182JM | XJ3P2BM        | \$1,122 | DS-3PT          | 1.00 | 18.4              | 90             | 89.5           | 7.7/3.8        |       |
| 5     | 3600 | 230/460 | 184JM | XJ5E1BM        | \$1,266 | DS-3PT          | 1.00 | 18.4              | 115            | 87.5           | 12.2/6.1       |       |
|       | 3600 | 230/460 | 184JM | XJ5P1BM        | \$1,546 | DS-3PT          | 1.00 | 18.4              | 110            | 88.5           | 12.2/6.1       |       |
|       | 1800 | 230/460 | 184JM | XJ5P2BM        | \$1,285 | DS-3PT          | 1.00 | 18.4              | 110            | 89.5           | 12.5/6.2       |       |
| 7 1/2 | 3600 | 230/460 | 213JM | XJ7E1BM        | \$1,566 | DS-3PT          | 1.00 | 21.0              | 145            | 88.5           | 18.4/9.2       |       |
|       | 3600 | 230/460 | 213JM | XJ7P1BM        | \$1,912 | DS-3PT          | 1.00 | 21.0              | 145            | 89.5           | 18.6/9.3       |       |
| 10    | 3600 | 230/460 | 215JM | XJ10P1BM       | \$2,215 | DS-3PT          | 1.15 | 21.0              | 170            | 90.2           | 23.6/11.8      |       |

† All marks shown within this document are properties of their respective owners.



# General Purpose Single Phase, Div.1 Hazardous Location Class I (Group C&D), Class II (Group E, F, & G)



## APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment located in hazardous areas.

## FEATURES:

- UL®† Listed & CSA®† Certified
- Temperature Code T3C
- Class B Insulation
- Continuous Duty
- Totally Enclosed Fan Cooled Except Where Noted
- 40°C Ambient Rated
- F1 Assembly

## C-Face Footless

| HP  | RPM  | Voltage             | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps        | Notes    |
|-----|------|---------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|-----------------------|----------|
| 1/4 | 1800 | 115/208-230&110/220 | 56C   | XS14CA2JCR     | \$482 | DS-3FMP         | 1.00 | 11.9              | 32             | 5.1/2.5-2.5 & 5.6/2.8 | 24,28,78 |
| 1/3 | 3600 | 115/208-230         | 56C   | XS13CA1JCR     | \$614 | DS-3FMP         | 1.00 | 13.3              | 29             | 8.0 / 3.6 - 4.0       | 24       |
|     | 1800 | 115/208-230         | 56C   | XS13CA2JCR     | \$537 | DS-3FMP         | 1.00 | 12.8              | 32             | 6.8/3.3-3.4           | 24       |
| 1/2 | 3600 | 115/208-230         | 56C   | XS12CA1JCR     | \$681 | DS-3FMP         | 1.00 | 13.3              | 29             | 8.8/4.1-4.4           | 24       |
|     | 1800 | 115/208-230         | 56C   | XS12CA2JCR     | \$563 | DS-3FMP         | 1.00 | 13.8              | 32             | 9.8/4.9-4.9           | 24       |
| 3/4 | 3600 | 115/208-230         | 56C   | XS34CA1JCR     | \$728 | DS-3FMP         | 1.00 | 13.3              | 32             | 10.4 / 5.3-5.2        | 24       |
|     | 1800 | 115/208-230         | 56C   | XS34CA2JCR     | \$630 | DS-3FMP         | 1.00 | 14.3              | 32             | 12.6/6.3-6.3          | 24       |
| 1   | 3600 | 115/208-230         | 56C   | XS1CA1JCR      | \$784 | DS-3FMP         | 1.00 | 14.3              | 42             | 12.0/6.3-6.0          | 24       |
|     | 1800 | 115/208-230         | 56C   | XS1CA2JCR      | \$675 | DS-3FMP         | 1.00 | 14.8              | 44             | 14.0/6.9-7.0          | 24       |

## Footed

| HP  | RPM  | Voltage             | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps      | Notes |
|-----|------|---------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|---------------------|-------|
| 1/4 | 1800 | 115/208-230&110/220 | 56    | XS14CA2J       | \$482   | DS-3FMP         | 1.00 | 12.5              | 32             | 5.1/2.5-2.5&5.6/2.8 | 24,28 |
|     | 1200 | 115/230             | 56    | XS14CA3P       | \$706   | DS-3FMP         | 1.00 | 13.0              | 32             | 6.8/3.4             | 24    |
| 1/3 | 3600 | 115/208-230         | 56    | XS13CA1J       | \$560   | DS-3FMP         | 1.00 | 13.2              | 29             | 8.0/3.6-4.0         | 24    |
|     | 1800 | 115/208-230         | 56    | XS13CA2J       | \$512   | DS-3FMP         | 1.00 | 12.7              | 32             | 6.8/3.3-3.4         | 24    |
|     | 1200 | 115/230             | 56    | XS13CA3P       | \$912   | DS-3FMP         | 1.00 | 12.7              | 32             | 7.2/3.6             | 24    |
| 1/2 | 3600 | 115/208-230         | 56    | XS12CA1J       | \$608   | DS-3FMP         | 1.00 | 13.2              | 29             | 8.8/4.1-4.4         | 24    |
|     | 1800 | 115/208-230         | 56    | XS12CA2J       | \$563   | DS-3FMP         | 1.00 | 13.2              | 32             | 9.8/4.9-4.9         | 24    |
|     | 1200 | 115/230             | 56H   | XS12CA3P       | \$1,053 | DS-3FMP         | 1.00 | 14.2              | 32             | 10.0/5.0            | 24    |
| 3/4 | 3600 | 115/208-230         | 56    | XS34CA1J       | \$686   | DS-3FMP         | 1.00 | 13.2              | 32             | 10.4 / 5.3 - 5.2    | 24    |
|     | 1800 | 115/208-230         | 56    | XS34CA2J       | \$630   | DS-3FMP         | 1.00 | 13.7              | 32             | 12.6/6.3-6.3        | 24    |
| 1   | 3600 | 115/208-230         | 56    | XS1CA1J        | \$608   | DS-3FMP         | 1.00 | 14.2              | 41             | 12.0/6.3-6.0        | 24    |
|     | 1800 | 115/208-230         | 56H   | XS1CA2JH       | \$714   | DS-3FMP         | 1.00 | 14.2              | 32             | 14.0/6.9-7.0        | 24    |

Note 24 Automatic Reset Thermal Protector Overload  
 Note 28 TENV Enclosure  
 Note 78 Class B Insulation

† All marks shown within this document are properties of their respective owners.



# C-Face Motors

For air compressors, pumps, conveyors, blowers  
and general industrial equipment.



**Horsepower:** 1/4 – 60 HP

**Phase:** Single and Three Phase

**RPM:** 1200, 1800, 3600 RPM

**Voltage:**

- 115
- 115/230
- 115/208-230
- 208-230/460
- 230/460
- 200
- 575

**Efficiency:**

- Footed
- Footless

**Types:**

- Split Phase ODP
- Capacitor Start ODP
- Capacitor Start TEFC
- Single and Three Phase  
Hazardous Location
- ODP NEMA Premium
- UNIMOUNT® TEFC NEMA  
Premium Efficient
- Totally Enclosed, Fan Cooled (TEFC)
- 841 PLUS® Premium Efficient TEFC



## C-Face Footed & Footless Motors for a variety of industrial needs

**Single Phase:**

- Open Dripproof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)

**Three Phase:**

- Open Dripproof NEMA  
Premium Efficient
- UNIMOUNT® Totally Enclosed  
Fan Cooled NEMA Premium  
Efficient
- CORRO-DUTY® Totally  
Enclosed Fan Cooled NEMA®†  
Premium

\* Refer to Page viii for Suitability of IHP  
Motors on Variable Frequency Drives.

† All marks shown within this document are properties of their respective owners.

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient C-Face Footed



## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

### UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

### STEEL EDGE™ (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame & Up)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2AC        | \$246 | DS-3RST         | 1.25 | 10.8              | 20             | 70.0           | 1.3-1.4/0.7    | 26        |
|       | 1800 | 575         | 56C   | U14S2GC        | \$246 | DS-3RST         | 1.25 | 10.8              | 22             | 75.5           | 0.4            | 26        |
|       | 1200 | 208-230/460 | 56C   | U14S3AC        | \$323 | DS-3RST         | 1.25 | 10.8              | 22             | 72.0           | 1.1-1.2/0.6    | 26        |
| 1/3   | 1800 | 208-230/460 | 56C   | U13S2AC        | \$281 | DS-3RST         | 1.25 | 10.8              | 22             | 72.0           | 1.4-1.5/0.7    | 26        |
|       | 1800 | 575         | 56C   | U13S2GC        | \$281 | DS-3RST         | 1.25 | 10.8              | 47             | 75.5           | 0.5            | 26        |
|       | 1200 | 208-230/460 | 56C   | U13S3AC        | \$361 | DS-3RST         | 1.25 | 10.8              | 23             | 75.5           | 1.3-1.3/0.6    | 26        |
| 1/2   | 3600 | 208-230/460 | 56C   | U12S1AC        | \$306 | DS-3RST         | 1.25 | 10.8              | 25             | 70.0           | 1.7-1.6/0.8    | 26        |
|       | 1800 | 208-230/460 | 56C   | U12S2AC        | \$306 | DS-3RST         | 1.25 | 10.8              | 26             | 74.0           | 1.8-1.8/0.9    | 26        |
|       | 1800 | 575         | 56C   | U12S2GC        | \$306 | DS-3RST         | 1.25 | 10.8              | 36             | 74.0           | 0.7            | 26        |
|       | 1200 | 208-230/460 | 56C   | U12S3AC        | \$393 | DS-3RST         | 1.25 | 11.5              | 26             | 72.0           | 2.2-2.2/1.1    | 26,103    |
| 3/4   | 3600 | 208-230/460 | 56C   | U34S1AC        | \$319 | DS-3RST         | 1.25 | 10.8              | 26             | 75.5           | 2.4-2.2/1.1    | 26        |
|       | 1800 | 208-230/460 | 56C   | U34S2AC        | \$329 | DS-3RST         | 1.25 | 10.8              | 32             | 77.0           | 2.7-2.7/1.4    | 26        |
|       | 1800 | 575         | 56C   | U34S2GC        | \$329 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 1.1            | 26        |
|       | 1200 | 208-230/460 | 143TC | U34S3DC        | \$464 | DS-3RST         | 1.25 | 12.1              | 30             | 72.0           | 3-3.1/1.6      | 26        |
|       | 1200 | 208-230/460 | 56C   | U34S3AC        | \$464 | DS-3RST         | 1.25 | 12.9              | 34             | -              | 3.1-3.2/1.6    | 26,103    |
| 1     | 3600 | 208-230/460 | 56C   | U1P1DC         | \$503 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03        |
|       | 3600 | 208-230/460 | 56C   | U1S1AC         | \$360 | DS-3RST         | 1.25 | 10.8              | 47             | 75.5           | 3.2-2.9/1.5    | 26,NNP,LA |
|       | 1800 | 208-230/460 | 143TC | U1P2DC         | \$503 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3.0/1.5    | 03        |
|       | 1800 | 208-230/460 | 143TC | U1P2DC         | \$503 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03        |
|       | 1800 | 208-230/460 | 56C   | U1P2DFC        | \$440 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 3.1-3/1.5      | 03        |
|       | 1800 | 208-230/460 | 56C   | U1S2AFC        | \$347 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 3.3-3.4/1.7    | 26,NNP,LA |
|       | 1800 | 575         | 143TC | U1P2GC         | \$503 | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 1.1            |           |
|       | 1800 | 575         | 56C   | U1P2GFC        | \$440 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            | 03        |
|       | 1800 | 575         | 56C   | U1S2GFC        | \$347 | DS-3RST         | 1.25 | 10.8              | 40             | 81.5           | 1.4            | 26,NNP,LA |
|       | 1200 | 208-230/460 | 145TC | U1P3DC         | \$655 | DS-3RST         | 1.25 | 13.1              | 35             | 82.5           | 3.6-3.5/1.8    | 03        |
|       | 1200 | 208-230/460 | 56C   | U1P3DFC        | \$655 | DS-3RST         | 1.25 | 13.1              | 30             | 82.5           | 3.6-3.5/1.8    | 03        |
|       | 1200 | 208-230/460 | 56C   | U1S3DFC        | \$471 | DS-3RST         | 1.25 | 10.8              | 36             | 78.5           | 3.8-3.9/2      | 26,NNP,LA |
|       | 1200 | 575         | 145TC | U1P3GC         | \$655 | DS-3RST         | 1.25 | 13.1              | 35             | 82.5           | 1.4            |           |
| 1 1/2 | 3600 | 200         | 143TC | U32P1HC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 4.4            |           |
|       | 3600 | 208-230/460 | 143TC | U32P1DC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 4.2-3.9/1.9    | 03        |
|       | 3600 | 208-230/460 | 56C   | U32P1DFC       | \$500 | DS-3RST         | 1.25 | 13.1              | 30             | 84.0           | 4.2-3.9/1.9    | 03        |
|       | 3600 | 208-230/460 | 56C   | U32S1AFC       | \$400 | DS-3RST         | 1.25 | 10.8              | 32             | 78.5           | 4.5-4/2        | 26,NNP,LA |
|       | 3600 | 575         | 143TC | U32P1GC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 1.6            |           |
|       | 1800 | 200         | 145TC | U32P2HC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 4.7            |           |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.

Note 26 Does not include World Motor® features.

Note 103 Does not accept brake kit.

Note LA Limited Availability.

Note NNP Non-NEMA®† Premium Rating.

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC), C-Face Footed



(continued)

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes         |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|---------------|
| 1 1/2 | 1800 | 208-230/460 | 145TC  | U32P2DC        | \$549   | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 4.5-4.3/2.1    | 03            |
|       | 1800 | 208-230/460 | 56C    | U32P2DFC       | \$442   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03            |
|       | 1800 | 208-230/460 | 56C    | U32S2AFC       | \$384   | DS-3RST         | 1.25 | 10.8              | 32             | 81.5           | 4.7-4.7/2.3    | 26,NNP,LA     |
|       | 1800 | 575         | 145TC  | U32P2GC        | \$549   | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 1.7            |               |
|       | 1800 | 575         | 56C    | U32P2GFC       | \$442   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            | 03            |
|       | 1800 | 575         | 56C    | U32S2GFC       | \$384   | DS-3RST         | 1.25 | 12.1              | 32             | 80.0           | 1.9            | 26,NNP,LA     |
|       | 1200 | 208-230/460 | 182TC  | U32P3DC        | \$845   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    |               |
|       | 1200 | 575         | 182TC  | U32P3GC        | \$845   | DS-3AL          | 1.25 | 16.2              | 0              | 87.5           | 1.8            |               |
| 2     | 3600 | 208-230/460 | 145TC  | U2P1DC         | \$659   | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 5.4-4.9/2.5    | 03            |
|       | 3600 | 208-230/460 | 56C    | U2P1DFC        | \$546   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.4-4.9/2.5    | 03            |
|       | 3600 | 208-230/460 | 56C    | U2S1AFC        | \$475   | DS-3RST         | 1.25 | 12.1              | 32             | 80.0           | 5.9-5.3/2.6    | 26,NNP,LA     |
|       | 3600 | 575         | 145TC  | U2P1GC         | \$659   | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 2              |               |
|       | 1800 | 208-230/460 | 145TC  | U2P2DC         | \$593   | DS-3RST         | 1.15 | 13.1              | 35             | 86.5           | 5.9-5.7/2.9    | 03            |
|       | 1800 | 208-230/460 | 56C    | U2P2DFC        | \$484   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03            |
|       | 1800 | 208-230/460 | 56C    | U2S2AFC        | \$421   | DS-3RST         | 1.25 | 10.8              | 42             | 82.5           | 6.2-6.3/3.2    | 26,NNP,LA     |
|       | 1800 | 575         | 145TC  | U2P2GC         | \$593   | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 2.3            |               |
|       | 1800 | 575         | 56C    | U2P2GFC        | \$484   | DS-3RST         | 1.25 | 13.9              | 50             | 85.5           | 2.5            |               |
|       | 1800 | 575         | 56C    | U2S2GFC        | \$421   | DS-3RST         | 1.25 | 12.5              | 39             | -              | 2.5            | 26,103,NNP,LA |
|       | 1200 | 208-230/460 | 184TC  | U2P3DC         | \$930   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    |               |
|       | 1200 | 208-230/460 | 184TC  | U2P3DC         | \$930   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    |               |
| 3     | 3600 | 208-230/460 | 145TC  | U3P1A14C       | \$772   | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 8.1-7.2/3.6    | 03,14         |
|       | 3600 | 208-230/460 | 182TC  | U3P1DC         | \$860   | DS-3AL          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9    |               |
|       | 3600 | 208-230/460 | 182TCH | U3P1DK         | \$860   | DS-3AL          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9    |               |
|       | 3600 | 208-230/460 | 56C    | U3P1DFC        | \$600   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 8.1-7.2/3.6    | 03            |
|       | 3600 | 208-230/460 | 56C    | U3S1AFC        | \$522   | DS-3RST         | 1.25 | 10.8              | 34             | 82.5           | 8.3-7.5/3.8    | 26,NNP,LA     |
|       | 1800 | 208-230/460 | 182TC  | S3P2AC         | \$669   | DS-3RST         | 1.15 | 15.9              | 85             | 89.5           | 8.4-7.8/3.9    | 04,16,26      |
|       | 1800 | 208-230/460 | 182TC  | U3P2DC         | \$772   | DS-3AL          | 1.25 | 16.2              | 70             | 89.5           | 8.4-7.8/3.9    |               |
|       | 1800 | 208-230/460 | 182TCH | U3P2DK         | \$772   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    |               |
|       | 1800 | 575         | 182TC  | U3P2GC         | \$772   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |               |
|       | 1200 | 208-230/460 | 213TC  | U3P3DC         | \$1,150 | DS-3AL          | 1.25 | 18.8              | 110            | 89.5           | 9.3-8.6/4.3    |               |
| 5     | 3600 | 208-230/460 | 184TC  | S5P1AC         | \$770   | DS-3RST         | 1.15 | 15.9              | 65             | 88.5           | 13.6-12.1/6.1  | 04,16,26      |
|       | 3600 | 208-230/460 | 184TC  | U5P1DC         | \$1,056 | DS-3AL          | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |               |
|       | 3600 | 208-230/460 | 184TCH | U5P1DK         | \$1,056 | DS-3AL          | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |               |
|       | 1800 | 200         | 184TCH | U5P2HK         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 89.5           | 14.2           |               |
|       | 1800 | 208-230/460 | 184TC  | S5P2AC         | \$770   | DS-3RST         | 1.15 | 15.9              | 110            | 89.5           | 13.5-12.5/6.2  | 04,16,26      |
|       | 1800 | 208-230/460 | 184TC  | U5P2DC         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |               |
|       | 1800 | 208-230/460 | 184TCH | U5P2DK         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |               |
|       | 1800 | 575         | 184TC  | U5P2GC         | \$882   | DS-3AL          | 1.25 | 16.9              | 70             | 89.5           | 5              |               |
|       | 1200 | 208-230/460 | 215TC  | U5P3DC         | \$1,597 | DS-3AL          | 1.25 | 20.3              | 135            | 90.2           | 15-14/7        |               |
|       | 1200 | 575         | 215TC  | U5P3GC         | \$1,597 | DS-3AL          | 1.25 | 20.3              | 135            | 89.5           | 5.6            |               |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | S7P1AC         | \$1,128 | DS-3RST         | 1.15 | 19.4              | 116            | 89.5           | 19.9-17.9/9    | 04,16,26      |
|       | 3600 | 208-230/460 | 213TC  | U7P1DC         | \$1,306 | DS-3AL          | 1.25 | 18.8              | 105            | 91.0           | 19.9-17.8/8.9  | 03            |
|       | 3600 | 575         | 213TC  | S7P1GC         | \$1,128 | DS-3RST         | 1.15 | 19.4              | 105            | 89.5           | 7.2            |               |
|       | 3600 | 575         | 213TC  | U7P1GC         | \$1,306 | DS-3AL          | 1.25 | 18.8              | 105            | 89.5           | 7.5            |               |
|       | 1800 | 208-230/460 | 213TC  | S7P2AC         | \$1,074 | DS-3RST         | 1.15 | 19.4              | 90             | 91.7           | 20-18.1/9.1    | 04,16,26      |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.  
 Note 04 On 60 Hertz Sine Wave power.  
 Note 14 NEMA® Design A.  
 Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts.

Note 26 Does not include World Motor® features.  
 Note 103 Does not accept brake kit.  
 Note LA Limited Availability.  
 Note NNP Non-NEMA® Premium Rating.

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC), C-Face Footed

(continued)



| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 7 1/2 | 1800 | 208-230/460 | 213TC | U7P2DC         | \$1,192 | DS-3AL          | 1.25 | 18.8              | 105            | 91.7           | 20-18.2/9.1    |          |
|       | 1800 | 575         | 213TC | S7P2GC         | \$1,074 | DS-3RST         | 1.15 | 19.4              | 105            | 91.7           | 7.2            |          |
|       | 1200 | 208-230/460 | 254TC | U7P3DC         | \$2,147 | DS-3AL          | 1.25 | 24.0              | 180            | 91.0           | 20.6-19/9.5    |          |
| 10    | 3600 | 208-230/460 | 215TC | S10P1AC        | \$1,336 | DS-3RST         | 1.15 | 19.4              | 131            | 90.2           | 26.5-23.5/11.7 | 04,16,26 |
|       | 3600 | 208-230/460 | 215TC | U10P1DC        | \$1,511 | DS-3AL          | 1.25 | 20.3              | 125            | 91.7           | 26.4-23.5/11.8 |          |
|       | 3600 | 575         | 215TC | S10P1GC        | \$1,336 | DS-3RST         | 1.15 | 19.4              | 120            | 90.2           | 9.4            |          |
|       | 3600 | 575         | 215TC | U10P1GC        | \$1,511 | DS-3AL          | 1.25 | 20.1              | 125            | 91.7           | 9.4            |          |
|       | 1800 | 208-230/460 | 215TC | S10P2AC        | \$1,272 | DS-3RST         | 1.15 | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26 |
|       | 1800 | 208-230/460 | 215TC | U10P2DC        | \$1,416 | DS-3AL          | 1.25 | 20.3              | 133            | 91.7           | 26.5-23.9/12   |          |
|       | 1800 | 575         | 215TC | S10P2GC        | \$1,272 | DS-3RST         | 1.15 | 19.4              | 120            | 91.7           | 9.5            |          |
|       | 1800 | 575         | 215TC | U10P2GC        | \$1,416 | DS-3AL          | 1.25 | 20.3              | 133            | 91.7           | 9.6            |          |
|       | 1200 | 208-230/460 | 256TC | U10P3DC        | \$2,558 | DS-3AL          | 1.25 | 25.8              | 230            | 91.7           | 27.1-24.6/12.3 |          |
| 15    | 3600 | 208-230/460 | 215TC | U15P1DFC       | \$1,812 | DS-3AL          | 1.25 | 20.3              | 120            | 91.0           | 40-35/17.4     | 03       |
|       | 3600 | 208-230/460 | 254TC | U15P1DC        | \$2,174 | DS-3AL          | 1.25 | 24.0              | 180            | 91.0           | 39-35/17.5     | 02,03    |
|       | 3600 | 575         | 254TC | U15P1GC        | \$2,174 | DS-3AL          | 1.25 | 24.0              | 185            | 91.0           | 14.1           |          |
|       | 1800 | 208-230/460 | 254TC | U15P2DC        | \$1,973 | DS-3AL          | 1.15 | 24.0              | 180            | 92.4           | 40-37/18.4     |          |
| 20    | 3600 | 208-230/460 | 256TC | U20P1DC        | \$2,650 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 53-46/23.1     | 02,03    |
|       | 3600 | 575         | 256TC | U20P1GC        | \$2,650 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 18.5           | 02       |
|       | 1800 | 208-230/460 | 256TC | U20P2DC        | \$2,391 | DS-3AL          | 1.25 | 25.8              | 230            | 93.0           | 53-47/23.5     |          |
| 25    | 3600 | 208-230/460 | 284TC | U25P1DC        | \$3,268 | DS-3AL          | 1.25 | 28.3              | 250            | 91.7           | 65-57/28.4     |          |
|       | 1800 | 208-230/460 | 284TC | U25P2DC        | \$2,890 | DS-3AL          | 1.25 | 28.3              | 280            | 93.6           | 65-59/29.3     | 03       |
| 30    | 1800 | 208-230/460 | 286TC | U30P2DC        | \$3,333 | DS-3AL          | 1.25 | 28.4              | 325            | 93.6           | 78-73/36       |          |

Note 02 Suitable for Wye-Delta start on voltages shown.

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 &amp; 50 Hz data on Nameplate.

Note 04 On 60 Hertz Sine Wave power.

Note 16

Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts.

Note 26

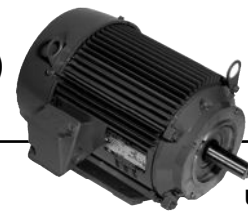
Does not include World Motor® features.

† All marks shown within this document are properties of their respective owners.





# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient – IE3, C-Face Footed



**NEMA**  
Premium

UT,FUT  
UTE

## FEATURES:

- World Motor® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1 1/2 | 1200 | 208-230/460 | 182TC  | U32P3DC        | \$845   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    |       |
|       | 1200 | 575         | 182TC  | U32P3GC        | \$845   | DS-3AL          | 1.25 | 16.2              | 0              | 87.5           | 1.8            |       |
| 2     | 1200 | 208-230/460 | 184TC  | U2P3DC         | \$930   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    |       |
| 3     | 3600 | 208-230/460 | 182TC  | U3P1DC         | \$860   | DS-3AL          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9    |       |
|       | 3600 | 208-230/460 | 182TCH | U3P1DK         | \$860   | DS-3AL          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 208-230/460 | 182TC  | U3P2DC         | \$772   | DS-3AL          | 1.25 | 16.2              | 70             | 89.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 208-230/460 | 182TCH | U3P2DK         | \$772   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    |       |
|       | 1800 | 575         | 182TC  | U3P2GC         | \$772   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |       |
|       | 1200 | 208-230/460 | 213TC  | U3P3DC         | \$1,150 | DS-3AL          | 1.25 | 18.8              | 110            | 89.5           | 9.3-8.6/4.3    |       |
| 5     | 3600 | 208-230/460 | 184TC  | U5P1DC         | \$1,056 | DS-3AL          | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |       |
|       | 3600 | 208-230/460 | 184TCH | U5P1DK         | \$1,056 | DS-3AL          | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |       |
|       | 1800 | 200         | 184TCH | U5P2HK         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 89.5           | 14.2           |       |
|       | 1800 | 208-230/460 | 184TC  | U5P2DC         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |       |
|       | 1800 | 208-230/460 | 184TCH | U5P2DK         | \$882   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |       |
|       | 1800 | 575         | 184TC  | U5P2GC         | \$882   | DS-3AL          | 1.25 | 16.9              | 70             | 89.5           | 5              |       |
|       | 1200 | 208-230/460 | 215TC  | U5P3DC         | \$1,597 | DS-3AL          | 1.25 | 20.3              | 135            | 90.2           | 15-14/7        |       |
|       | 1200 | 575         | 215TC  | U5P3GC         | \$1,597 | DS-3AL          | 1.25 | 20.3              | 135            | 89.5           | 5.6            |       |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | U7P1DC         | \$1,306 | DS-3AL          | 1.25 | 18.8              | 105            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 3600 | 575         | 213TC  | U7P1GC         | \$1,306 | DS-3AL          | 1.25 | 18.8              | 105            | 89.5           | 7.5            |       |
|       | 1800 | 208-230/460 | 213TC  | U7P2DC         | \$1,192 | DS-3AL          | 1.25 | 18.8              | 105            | 91.7           | 20-18.2/9.1    |       |
|       | 1200 | 208-230/460 | 254TC  | U7P3DC         | \$2,147 | DS-3AL          | 1.25 | 24.0              | 180            | 91.0           | 20.6-19/9.5    |       |
| 10    | 3600 | 208-230/460 | 215TC  | U10P1DC        | \$1,511 | DS-3AL          | 1.25 | 20.3              | 125            | 91.7           | 26.4-23.5/11.8 |       |
|       | 3600 | 575         | 215TC  | U10P1GC        | \$1,511 | DS-3AL          | 1.25 | 20.1              | 125            | 91.7           | 9.4            |       |
|       | 1800 | 208-230/460 | 215TC  | U10P2DC        | \$1,416 | DS-3AL          | 1.25 | 20.3              | 133            | 91.7           | 26.5-23.9/12   |       |
|       | 1800 | 575         | 215TC  | U10P2GC        | \$1,416 | DS-3AL          | 1.25 | 20.3              | 133            | 91.7           | 9.6            |       |
|       | 1200 | 208-230/460 | 256TC  | U10P3DC        | \$2,558 | DS-3AL          | 1.25 | 25.8              | 230            | 91.7           | 27.1-24.6/12.3 |       |
| 15    | 3600 | 208-230/460 | 215TC  | U15P1DFC       | \$1,812 | DS-3AL          | 1.25 | 20.3              | 120            | 91.0           | 40-35/17.4     | 03    |
|       | 3600 | 208-230/460 | 254TC  | U15P1DC        | \$2,174 | DS-3AL          | 1.25 | 24.0              | 180            | 91.0           | 39-35/17.5     | 02,03 |
|       | 3600 | 575         | 254TC  | U15P1GC        | \$2,174 | DS-3AL          | 1.25 | 24.0              | 185            | 91.0           | 14.1           |       |
|       | 1800 | 208-230/460 | 254TC  | U15P2DC        | \$1,973 | DS-3AL          | 1.15 | 24.0              | 180            | 92.4           | 40-37/18.4     |       |
| 20    | 3600 | 208-230/460 | 256TC  | U20P1DC        | \$2,650 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 53-46/23.1     | 02,03 |
|       | 3600 | 575         | 256TC  | U20P1GC        | \$2,650 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 18.5           | 02    |
|       | 1800 | 208-230/460 | 256TC  | U20P2DC        | \$2,391 | DS-3AL          | 1.25 | 25.8              | 230            | 93.0           | 53-47/23.5     |       |
| 25    | 3600 | 208-230/460 | 284TC  | U25P1DC        | \$3,268 | DS-3AL          | 1.25 | 28.3              | 250            | 91.7           | 65-57/28.4     |       |
|       | 1800 | 208-230/460 | 284TC  | U25P2DC        | \$2,890 | DS-3AL          | 1.25 | 28.3              | 280            | 93.6           | 65-59/29.3     | 03    |
| 30    | 1800 | 208-230/460 | 286TC  | U30P2DC        | \$3,333 | DS-3AL          | 1.25 | 28.4              | 325            | 93.6           | 78-73/36       |       |

- Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.  
 Note 14 NEMA® Design A

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GEN. PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
STEEL EDGE™

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY™

GENERAL PURPOSE  
841 PLUS™

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE MOTORS  
ALL TYPES

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footed



## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2AC        | \$246 | DS-3RST         | 1.25 | 10.8              | 20             | 70.0           | 1.3-1.4/0.7    | 26,NNP |
|       | 1800 | 575         | 56C   | U14S2GC        | \$246 | DS-3RST         | 1.25 | 10.8              | 22             | 75.5           | 0.4            | 26,NNP |
|       | 1200 | 208-230/460 | 56C   | U14S3AC        | \$323 | DS-3RST         | 1.25 | 10.8              | 22             | 72.0           | 1.1-1.2/0.6    | 26,NNP |
| 1/3   | 1800 | 208-230/460 | 56C   | U13S2AC        | \$281 | DS-3RST         | 1.25 | 10.8              | 20             | 72.0           | 1.4-1.5/0.7    | 26,NNP |
|       | 1800 | 575         | 56C   | U13S2GC        | \$281 | DS-3RST         | 1.25 | 10.8              | 47             | 75.5           | 0.5            | 26,NNP |
|       | 1200 | 208-230/460 | 56C   | U13S3AC        | \$361 | DS-3RST         | 1.25 | 10.8              | 23             | 75.5           | 1.3-1.3/0.6    | 26,NNP |
| 1/2   | 3600 | 208-230/460 | 56C   | U12S1AC        | \$306 | DS-3RST         | 1.25 | 10.8              | 25             | 70.0           | 1.7-1.6/0.8    | 26,NNP |
|       | 1800 | 208-230/460 | 56C   | U12S2AC        | \$306 | DS-3RST         | 1.25 | 10.8              | 26             | 74.0           | 1.8-1.8/0.9    | 26,NNP |
|       | 1800 | 575         | 56C   | U12S2GC        | \$306 | DS-3RST         | 1.25 | 10.8              | 36             | 74.0           | 0.7            | 26,NNP |
|       | 1200 | 208-230/460 | 56C   | U12S3AC        | \$393 | DS-3RST         | 1.25 | 11.5              | 26             | 72.0           | 2.2-2.2/1.1    | 26,NNP |
| 3/4   | 3600 | 208-230/460 | 56C   | U34S1AC        | \$319 | DS-3RST         | 1.25 | 10.8              | 26             | 74.0           | 2.5-2.2/1.1    | 26,NNP |
|       | 1800 | 208-230/460 | 56C   | U34S2AC        | \$329 | DS-3RST         | 1.25 | 10.8              | 32             | 77.0           | 2.7-2.7/1.4    | 26,NNP |
|       | 1800 | 575         | 56C   | U34S2GC        | \$329 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 1.1            | 26,NNP |
|       | 1200 | 208-230/460 | 143TC | U34S3DC        | \$464 | DS-3RST         | 1.25 | 12.1              | 30             | 72.0           | 3.1-3.1/1.6    | 26,NNP |
|       | 1200 | 208-230/460 | 56C   | U34S3AC        | \$464 | DS-3RST         | 1.25 | 12.9              | 33             | -              | 3.1-3.2/1.6    | 26,NNP |
| 1     | 3600 | 208-230/460 | 56C   | U1P1DC         | \$503 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03     |
|       | 3600 | 208-230/460 | 56C   | U1S1AC         | \$360 | DS-3RST         | 1.25 | 10.8              | 15             | 74.0           | 3.2-2.9/1.5    | 26,NNP |
|       | 1800 | 208-230/460 | 143TC | U1P2DC         | \$503 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03     |
|       | 1800 | 208-230/460 | 56C   | U1P2DFC        | \$440 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 3.1-3/1.5      | 03     |
|       | 1800 | 208-230/460 | 56C   | U1S2AFC        | \$347 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 3.4-3.4/1.7    | 26,NNP |
|       | 1800 | 575         | 143TC | U1P2GC         | \$503 | DS-3RST         | 1.25 | 12.1              | 50             | 85.5           | 1.1            |        |
|       | 1800 | 575         | 56C   | U1S2GFC        | \$347 | DS-3RST         | 1.25 | 10.8              | 40             | 81.5           | 1.4            | 26,NNP |
|       | 1800 | 575         | 56C   | U1P2GFC        | \$440 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            | 03     |
|       | 1200 | 208-230/460 | 145TC | U1P3DC         | \$655 | DS-3RST         | 1.25 | 13.1              | 40             | 82.5           | 3.6-3.5/1.8    | 03     |
|       | 1200 | 208-230/460 | 56C   | U1S3DFC        | \$471 | DS-3RST         | 1.25 | 10.8              | 36             | 78.5           | 3.8-3.9/2      | 26,NNP |
|       | 1200 | 208-230/460 | 56C   | U1P3DFC        | \$655 | DS-3RST         | 1.25 | 13.1              | 30             | 82.5           | 3.6-3.5/1.8    | 03     |
|       | 1200 | 575         | 145TC | U1P3GC         | \$655 | DS-3RST         | 1.25 | 13.1              | 40             | 82.5           | 1.4            |        |
| 1 1/2 | 3600 | 200         | 143TC | U32P1HC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 4.4            |        |
|       | 3600 | 208-230/460 | 143TC | U32P1DC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 4.2-3.9/1.9    | 03     |
|       | 3600 | 208-230/460 | 56C   | U32S1AFC       | \$400 | DS-3RST         | 1.25 | 10.8              | 32             | 78.5           | 4.6-4/2        | 26,NNP |
|       | 3600 | 208-230/460 | 56C   | U32P1DFC       | \$500 | DS-3RST         | 1.25 | 13.1              | 30             | 84.0           | 4.2-3.9/1.9    | 03     |
|       | 3600 | 575         | 143TC | U32P1GC        | \$567 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 1.6            |        |
|       | 1800 | 200         | 145TC | U32P2HC        | \$549 | DS-3RST         | 1.25 | 13.1              | 60             | 86.5           | 4.7            |        |
|       | 1800 | 208-230/460 | 145TC | U32P2DC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 4.5-4.3/2.1    | 03     |
|       | 1800 | 208-230/460 | 56C   | U32S2AFC       | \$384 | DS-3RST         | 1.25 | 10.8              | 32             | 81.5           | 4.7-4.7/2.3    | 26,NNP |
|       | 1800 | 208-230/460 | 145TC | U32P2DC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 4.5-4.3/2.1    | 03     |
|       | 1800 | 208-230/460 | 56C   | U32P2DFC       | \$442 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03     |
|       | 1800 | 575         | 145TC | U32P2GC        | \$549 | DS-3RST         | 1.25 | 13.1              | 35             | 86.5           | 1.7            |        |
|       | 1800 | 575         | 56C   | U32S2GFC       | \$384 | DS-3RST         | 1.25 | 12.1              | 32             | 80.0           | 1.9            | 26,NNP |
|       | 1800 | 575         | 56C   | U32P2GFC       | \$442 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            | 03     |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 26 Does not include WORLD MOTOR® features

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footed



(continued)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 2     | 3600 | 208-230/460 | 145TC | U2P1DC         | \$659   | DS-3RST         | 1.25 | 13.1              | 40             | 85.5           | 5.4-4.9/2.5    | 03       |
|       | 3600 | 208-230/460 | 56C   | U2S1AFC        | \$475   | DS-3RST         | 1.25 | 12.1              | 30             | 80.0           | 5.9-5.3/2.6    | 26,NNP   |
|       | 3600 | 208-230/460 | 56C   | U2P1DFC        | \$546   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.4-4.9/2.5    | 03       |
|       | 3600 | 575         | 145TC | U2P1GC         | \$659   | DS-3RST         | 1.25 | 13.1              | 40             | 85.5           | 2              |          |
|       | 1800 | 208-230/460 | 145TC | U2P2DC         | \$593   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 208-230/460 | 56C   | U2S2AFC        | \$421   | DS-3RST         | 1.25 | 10.8              | 42             | 82.5           | 6.3-6.3/3.2    | 26,NNP   |
|       | 1800 | 208-230/460 | 56C   | U2P2DFC        | \$484   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03       |
|       | 1800 | 575         | 145TC | U2P2GC         | \$593   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 2.3            |          |
|       | 1800 | 575         | 56C   | U2S2GFC        | \$421   | DS-3RST         | 1.25 | 12.5              | 39             | -              | 2.5            | NNP      |
|       | 1800 | 575         | 56C   | U2P2GFC        | \$484   | DS-3RST         | 1.25 | 13.9              | 50             | 85.5           | 2.5            |          |
| 3     | 3600 | 208-230/460 | 145TC | U3P1A14C       | \$772   | DS-3RST         | 1.25 | 13.1              | 53             | 86.5           | 8.1-7.2/3.6    | 03,14    |
|       | 3600 | 208-230/460 | 56C   | U3S1AFC        | \$522   | DS-3RST         | 1.25 | 10.8              | 32             | 82.5           | 8.5-7.5/3.8    | 26,NNP   |
|       | 3600 | 208-230/460 | 56C   | U3P1DFC        | \$600   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 8.1-7.2/3.6    | 03       |
|       | 1800 | 208-230/460 | 182TC | S3P2AC         | \$669   | DS-3RST         | 1.15 | 15.9              | 85             | 89.5           | 8.4-7.8/3.9    | 04,16,26 |
| 5     | 3600 | 208-230/460 | 184TC | S5P1AC         | \$770   | DS-3RST         | 1.15 | 15.9              | 65             | 88.5           | 13.6-12.1/6.1  | 04,16,26 |
|       | 1800 | 208-230/460 | 184TC | S5P2AC         | \$770   | DS-3RST         | 1.15 | 15.9              | 110            | 89.5           | 13.5-12.5/6.2  | 04,16,26 |
| 7 1/2 | 3600 | 208-230/460 | 213TC | S7P1AC         | \$1,128 | DS-3RST         | 1.15 | 19.4              | 116            | 90.2           | 19.9-17.9/9    | 04,16,26 |
|       | 1800 | 208-230/460 | 213TC | S7P2AC         | \$1,074 | DS-3RST         | 1.15 | 19.4              | 90             | 91.7           | 20-18.1/9.1    | 04,16,26 |
| 10    | 3600 | 208-230/460 | 215TC | S10P1AC        | \$1,336 | DS-3RST         | 1.15 | 19.4              | 131            | 90.2           | 26.5-23.5/11.7 | 04,16,26 |
|       | 1800 | 208-230/460 | 215TC | S10P2AC        | \$1,272 | DS-3RST         | 1.15 | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26 |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA<sup>®†</sup> Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR<sup>®</sup> features

Note NNP Non-NEMA<sup>®†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face Footless

## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

### UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- WORLDMOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

### STEEL EDGE™ (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame and Up)

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes   |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|---------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | 1.25 | 10.8              | 23             | 70.0           | 1-1/0.5        | 16      |
|       | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | 1.25 | 10.8              | 23             | 70.0           | 1-1/0.5        | 16      |
|       | 1200 | 208-230/460 | 56C   | T14S3DCR       | \$308 | DS-3RST         | 1.15 | 11.3              | 27             | 75.5           | 1.4-1.4/0.7    | 26,103  |
| 1/3   | 3600 | 208-230/460 | 56C   | T13S1ACR       | \$279 | DS-3RST         | 1.15 | 10.9              | 32             | -              | 1.7-1.8/0.9    | 103     |
|       | 1800 | 208-230/460 | 42CZ  | T13S2D42ZCR    | \$266 | DS-3RST         | 1.00 | 11.6              | 9              | -              | 1.5-1.5/0.75   | 26      |
|       | 1800 | 208-230/460 | 56C   | U13S2ACR       | \$266 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.2-1.2/0.6    | 16      |
|       | 1800 | 575         | 56C   | T13S2GCR       | \$266 | DS-3RST         | 1.15 | 11.4              | 26             | -              | 0.59           | 103     |
|       | 1200 | 208-230/460 | 56C   | T13S3DCR       | \$346 | DS-3RST         | 1.15 | 11.3              | 32             | 77.0           | 1.6-1.6/0.80   | 26,103  |
| 1/2   | 3600 | 208-230/460 | 56C   | T12S1ACR       | \$291 | DS-3RST         | 1.15 | 10.9              | 32             | 64.0           | 2.18-2.18/1.09 | 103     |
|       | 3600 | 208-230/460 | 56C   | U1P1DCR        | \$488 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03      |
|       | 1800 | 208-230/460 | 56C   | U12P2DCR       | \$378 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 1.8/1.8/0.9    | 03      |
|       | 1800 | 208-230/460 | 56C   | U12S2ACR       | \$291 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.8-1.7/0.9    | 16      |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|       | 1800 | 575         | 56C   | U12S2GCR       | \$291 | DS-3RST         | 1.25 | 10.8              | 27             | 74.0           | 0.7            |         |
|       | 1800 | 575         | 56C   | U1P2GFCR       | \$425 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            |         |
|       | 1200 | 208-230/460 | 56C   | U12S3ACR       | \$378 | DS-3RST         | 1.25 | 10.8              | 25             | 72.0           | 2.1-2.1/1      | 16      |
|       | 3600 | 208-230/460 | 56C   | U34S1ACR       | \$304 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 2.4-2.2/1.1    | 16      |
| 3/4   | 1800 | 208-230/460 | 56C   | U34S2ACR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 78.5           | 2.6-2.7/1.3    | 16      |
|       | 1800 | 575         | 56C   | U34S2GCR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 0.9            |         |
|       | 1200 | 208-230/460 | 56C   | U34S3ACR       | \$449 | DS-3RST         | 1.15 | 12.9              | 32             | -              | 3.1-3.2/1.6    | 103     |
|       | 3600 | 208-230/460 | 56C   | U1S1ACR        | \$345 | DS-3RST         | 1.25 | 10.8              | 38             | 75.5           | 3.2-2.9/1.4    | 16,NNP  |
| 1     | 1800 | 208-230/460 | 143TC | U1E2DCR        | \$403 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 3.1-3/1.5      | NNP     |
|       | 1800 | 208-230/460 | 143TC | U1P2DCR        | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$425 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03      |
|       | 1800 | 208-230/460 | 56C   | U1S2AFCR       | \$332 | DS-3RST         | 1.25 | 10.8              | 31             | 80.0           | 3.3-3.4/1.7    | 16,NNP  |
|       | 1800 | 575         | 143TC | U1E2GCR        | \$403 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 1.2            | NNP     |
|       | 1800 | 575         | 56C   | U1S2GFCR       | \$332 | DS-3RST         | 1.25 | 12.1              | 31             | 80.0           | 1.4            | NNP     |
|       | 1200 | 208-230/460 | 56C   | T1S3ACR        | \$456 | DS-3RST         | 1.15 | 13.4              | 32             | 83.0           | 3.7-3.8/1.9    | 103,NNP |
|       | 3600 | 208-230/460 | 143TC | U32E1A14CR     | \$552 | DS-3RST         | 1.15 | 11.9              | 32             | 82.5           | 4.9-5.0/2.5    | 103,NNP |
|       | 3600 | 208-230/460 | 56C   | T32P1ACR       | \$485 | DS-3RST         | 1.15 | 12.3              | 32             | 84.0           | 4.9-5.0/2.5    |         |
| 1 1/2 | 3600 | 208-230/460 | 56C   | T32S1ACR       | \$385 | DS-3RST         | 1.15 | 11.9              | 27             | 80.0           | 4.7-4.5/2.2    | 103,NNP |
|       | 1800 | 208-230/460 | 145TC | U32E2DCR       | \$439 | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 4.6-4.3/2.2    | NNP     |
|       | 1800 | 208-230/460 | 145TC | U32P2DCR       | \$534 | DS-3RST         | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1    | 03      |
|       | 1800 | 208-230/460 | 145TC | U32P2DCR       | \$534 | DS-3RST         | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1    | 03      |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLDMOTOR® features

Note 103 Does not accept brake kit

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes      |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|------------|
| 1 1/2 | 1800 | 208-230/460 | 56C    | T32E2ACR       | \$439   | DS-3RST         | 1.25 | 12.9              | 32             | 84.0           | 4.5-4.5/2.2    | 103, NNP   |
|       | 1800 | 208-230/460 | 56C    | U32P2DFCR      | \$426   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03         |
|       | 1800 | 208-230/460 | 56C    | U32S2AFRCR     | \$369   | DS-3RST         | 1.25 | 10.8              | 33             | 81.5           | 4.7-4.7/2.3    | 16, NNP    |
|       | 1800 | 575         | 145TC  | U32E2GCR       | \$439   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 1.8            | NNP        |
|       | 1800 | 575         | 56C    | U32S2GFCR      | \$369   | DS-3RST         | 1.25 | 12.1              | 33             | 80.0           | 1.9            | NNP        |
|       | 1800 | 575         | 56C    | U32P2GFCR      | \$426   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            |            |
|       | 1200 | 208-230/460 | 182TC  | U32E3DCR       | \$611   | DS-3AL          | 1.25 | 16.1              | 55             | 85.5           | 5.5-5.4/2.7    | 03, NNP    |
|       | 1200 | 208-230/460 | 182TC  | U32P3DCR       | \$815   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    | 03         |
|       | 1200 | 208-230/460 | 56C    | T32S3ACR       | \$564   | DS-3RST         | 1.15 | 14.4              | 32             | -              | 5.4-5.3/2.6    | 103, NNP   |
| 2     | 3600 | 208-230/460 | 56C    | T2P1ACR        | \$529   | DS-3RST         | 1.15 | 13.6              | 35             | 85.5           | 6.0-5.6/2.8    | 04, 16, 26 |
|       | 3600 | 208-230/460 | 56C    | T2S1ACR        | \$460   | DS-3RST         | 1.15 | 11.9              | 32             | 80.0           | 6.0-5.4/2.7    | 103, NNP   |
|       | 1800 | 208-230/460 | 145TC  | U2E2DCR        | \$475   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 6.1-5.9/2.9    | NNP        |
|       | 1800 | 208-230/460 | 145TC  | U2P2DCR        | \$578   | DS-3RST         | 1.25 | 13.1              | 45             | 86.5           | 5.9-5.7/2.8    | 03         |
|       | 1800 | 208-230/460 | 56C    | U2P2DFCR       | \$467   | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03         |
|       | 1800 | 208-230/460 | 56C    | U2S2AFRCR      | \$406   | DS-3RST         | 1.25 | 12.1              | 43             | 82.5           | 6.1-5.9/3      | 16, NNP    |
|       | 1800 | 575         | 145TC  | U2E2GCR        | \$475   | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 2.4            | NNP        |
|       | 1800 | 575         | 56C    | T2S2GCR        | \$406   | DS-3RST         | 1.15 | 13.4              | 26             | 82.5           | 2.4            | 103, NNP   |
|       | 1200 | 208-230/460 | 184TC  | U2E3DCR        | \$682   | DS-3AL          | 1.25 | 16.9              | 70             | 86.5           | 7-6.8/3.4      | 03, NNP    |
|       | 1200 | 208-230/460 | 184TC  | U2P3DCR        | \$900   | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    | 03         |
| 3     | 3600 | 208-230/460 | 145TC  | U3E1A14CR      | \$528   | DS-3RST         | 1.25 | 13.4              | 32             | 85.5           | 8.5-7.3/3.6    | 103, NNP   |
|       | 3600 | 208-230/460 | 145TC  | U3P1A14CR      | \$607   | DS-3RST         | 1.25 | 13.9              | 34             | 86.5           | 7.4-7.5/3.7    | 04, 16, 26 |
|       | 3600 | 208-230/460 | 182TC  | U3E1DCR        | \$688   | DS-3AL          | 1.25 | 16.1              | 58             | 85.5           | 8.7-8/4        | 03, NNP    |
|       | 3600 | 208-230/460 | 182TC  | U3P1DCR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03         |
|       | 3600 | 208-230/460 | 182TCH | U3E1DKR        | \$688   | DS-3AL          | 1.25 | 16.1              | 53             | 85.5           | 8.7-8/4        | 03, NNP    |
|       | 3600 | 208-230/460 | 182TCH | U3P1DKR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03         |
|       | 3600 | 208-230/460 | 56C    | T3P1ACR        | \$583   | DS-3RST         | 1.15 | 14.1              | 40             | 86.5           | 7.9-6.7/3.4    |            |
|       | 3600 | 208-230/460 | 56C    | T3S1ACR        | \$507   | DS-3RST         | 1.15 | 13.4              | 32             | 86.0           | 8.5-7.3/3.6    | 103, NNP   |
|       | 1800 | 208-230/460 | 182TC  | S3E2ACR        | \$569   | DS-3RST         | 1.15 | 15.9              | 85             | 87.5           | 8.5-7.9/3.9    | 26, NNP    |
|       | 1800 | 208-230/460 | 182TC  | S3P2ACR        | \$639   | DS-3RST         | 1.15 | 15.9              | 60             | 89.5           | 8.4-7.8/3.9    | 04, 16, 26 |
|       | 1800 | 208-230/460 | 182TC  | U3E2DCR        | \$618   | DS-3AL          | 1.25 | 16.1              | 67             | 87.5           | 8.5-7.9/3.9    | 03, NNP    |
|       | 1800 | 208-230/460 | 182TC  | U3P2DCR        | \$742   | DS-3AL          | 1.25 | 16.1              | 60             | 89.5           | 8.4-7.8/3.9    | 03         |
|       | 1800 | 208-230/460 | 182TCH | U3P2DKR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    | 03         |
|       | 1800 | 208-230/460 | 56C    | T3S2ACR        | \$517   | DS-3RST         | 1.00 | 14.9              | 50             | 87.5           | 9.5-9.2/4.6    | 103, NNP   |
|       | 1800 | 575         | 182TC  | U3E2GCR        | \$618   | DS-3AL          | 1.25 | 16.1              | 65             | 87.5           | 3.2            | NNP        |
|       | 1800 | 575         | 182TC  | U3P2GCR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |            |
|       | 1200 | 208-230/460 | 213TC  | U3E3DCR        | \$920   | DS-3AL          | 1.25 | 18.6              | 110            | 87.5           | 9.7-9.1/4.5    | 03, NNP    |
|       | 1200 | 208-230/460 | 213TC  | U3P3DCR        | \$1,105 | DS-3AL          | 1.25 | 18.6              | 105            | 89.5           | 9.3-8.6/4.3    | 03         |
| 5     | 3600 | 208-230/460 | 184TC  | S5E1ACR        | \$655   | DS-3RST         | 1.15 | 15.9              | 65             | 87.5           | 13.7-12.3/6.1  | 26, NNP    |
|       | 3600 | 208-230/460 | 184TC  | S5P1ACR        | \$740   | DS-3RST         | 1.15 | 15.9              | 70             | 88.5           | 13.6-12.1/6.1  | 04, 16, 26 |
|       | 3600 | 208-230/460 | 184TC  | U5E1DCR        | \$845   | DS-3AL          | 1.25 | 16.9              | 120            | 87.5           | 13.8-12.3/6.1  | 03, NNP    |
|       | 3600 | 208-230/460 | 184TC  | U5P1DCR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03         |
|       | 3600 | 208-230/460 | 184TCH | U5P1DKR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03         |
|       | 1800 | 208-230/460 | 184TC  | S5E2ACR        | \$655   | DS-3RST         | 1.15 | 15.9              | 110            | 87.5           | 14.2-12.8/6.4  | 26, NNP    |
|       | 1800 | 208-230/460 | 184TC  | S5P2ACR        | \$740   | DS-3RST         | 1.15 | 15.9              | 70             | 88.5           | 13.5-12.5/6.2  | 04, 16, 26 |
|       | 1800 | 208-230/460 | 184TC  | U5E2DCR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | NNP        |
|       | 1800 | 208-230/460 | 184TC  | U5P2DCR        | \$852   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  | 03         |
|       | 1800 | 208-230/460 | 184TCH | U5E2DKR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | 03, NNP    |
|       | 1800 | 208-230/460 | 184TCH | U5P2DKR        | \$852   | DS-3AL          | 1.25 | 16.9              | 70             | 90.2           | 13.6-12.3/6.2  | 03         |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave Power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts

Note 26 Does not include WORLD MOTOR® features

Note 103 Does not accept brake kit

Note NNP Non-NEMA\* Premium Rating

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GEN. PURPOSE  
UNIMOUNT  
GENERAL PURPOSE  
STEEL EDGE™  
GENERAL PURPOSE  
HOSTILE DUTY  
GENERAL PURPOSE  
CORRO-DUTY™  
GENERAL PURPOSE  
841 PLUS®  
GENERAL PURPOSE  
OPEN DRIPPROOF  
GENERAL PURPOSE  
HAZARDOUS  
LOCATION  
GENERAL PURPOSE  
AUTOMOTIVE DUTY  
COOLING TOWER  
DUTY  
HAZARDOUS  
LOCATION  
C-FACE MOTORS  
ALL TYPES  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC), C-Face Footless

(continued)

| HP    | RPM  | Voltage     | Frame       | Catalog Number | List      | Discount Symbol | SF     | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes      |
|-------|------|-------------|-------------|----------------|-----------|-----------------|--------|-------------------|----------------|----------------|----------------|------------|
| 5     | 1800 | 575         | 184TC       | U5E2GCR        | \$780     | DS-3AL          | 1.25   | 16.9              | 70             | 87.5           | 5.2            | NNP        |
|       | 1200 | 208-230/460 | 215TC       | U5E3DCR        | \$1,278   | DS-3AL          | 1.25   | 20.1              | 140            | 87.5           | 15.6-14.5/7.3  | 03,NNP     |
|       | 1200 | 208-230/460 | 215TC       | U5P3DCR        | \$1,552   | DS-3AL          | 1.25   | 20.1              | 120            | 90.2           | 15-14/7        | 03         |
|       | 1200 | 575         | 215TC       | U5E3GCR        | \$1,278   | DS-3AL          | 1.25   | 20.1              | 140            | 87.5           | 5.8            | NNP        |
| 7 1/2 | 3600 | 208-230/460 | 213TC       | S7E1ACR        | \$959     | DS-3RST         | 1.15   | 19.4              | 55             | 88.5           | 20.6-18.4/9.2  | 26,NNP     |
|       | 3600 | 208-230/460 | 213TC       | S7P1ACR        | \$1,083   | DS-3RST         | 1.15   | 19.4              | 105            | 89.5           | 19.9-17.9/9    | 04,16,26   |
|       | 3600 | 208-230/460 | 213TC       | U7E1DCR        | \$1,045   | DS-3AL          | 1.25   | 18.6              | 100            | 88.5           | 20.4-18.4/9.2  | 03,NNP     |
|       | 3600 | 208-230/460 | 213TC       | U7P1DCR        | \$1,261   | DS-3AL          | 1.25   | 18.6              | 105            | 91.0           | 19.9-17.8/8.9  | 03         |
|       | 1800 | 208-230/460 | 213TC       | S7E2ACR        | \$913     | DS-3RST         | 1.15   | 19.4              | 90             | 89.5           | 20.1-18.3/9.1  | 26,NNP     |
|       | 1800 | 208-230/460 | 213TC       | S7P2ACR        | \$1,029   | DS-3RST         | 1.15   | 19.4              | 105            | 91.7           | 20-18.1/9.1    | 04,16,26   |
|       | 1800 | 208-230/460 | 213TC       | U7E2DCR        | \$954     | DS-3AL          | 1.15   | 18.6              | 110            | 89.5           | 20.6-18.8/9.4  | 03,NNP     |
|       | 1800 | 208-230/460 | 213TC       | U7P2DCR        | \$1,147   | DS-3AL          | 1.25   | 18.6              | 110            | 91.7           | 20-18.2/9.1    | 03         |
|       | 1800 | 575         | 213TC       | U7E2GCR        | \$954     | DS-3AL          | 1.25   | 18.6              | 110            | 89.5           | 7.5            | NNP        |
|       | 1200 | 208-230/460 | 254TC       | U7E3DCR        | \$1,718   | DS-3AL          | 1.25   | 23.9              | 200            | 89.5           | 20.8-18.8/9.4  | 02,03,NNP  |
|       | 1200 | 208-230/460 | 254TC       | U7P3DCR        | \$2,087   | DS-3AL          | 1.25   | 23.9              | 180            | 91.0           | 20.6-19/9.5    | 03         |
| 10    | 3600 | 208-230/460 | 215TC       | S10E1ACR       | \$1,136   | DS-3RST         | 1.15   | 19.4              | 65             | 89.5           | 26.5-23.5/11.7 | 26,NNP     |
|       | 3600 | 208-230/460 | 215TC       | S10P1ACR       | \$1,291   | DS-3RST         | 1.15   | 19.4              | 120            | 90.2           | 26.5-23.5/11.7 | 04,16,26   |
|       | 3600 | 208-230/460 | 215TC       | U10E1DCR       | \$1,209   | DS-3AL          | 1.25   | 20.1              | 110            | 89.5           | 26.7-23.8/11.9 | 03,NNP     |
|       | 3600 | 208-230/460 | 215TC       | U10P1DCR       | \$1,466   | DS-3AL          | 1.25   | 20.1              | 120            | 91.0           | 26.4-23.5/11.8 | 03         |
|       | 1800 | 208-230/460 | 215TC       | S10E2ACR       | \$1,081   | DS-3RST         | 1.15   | 19.4              | 120            | 89.5           | 26.6-23.8/11.9 | 26,NNP     |
|       | 1800 | 208-230/460 | 215TC       | S10P2ACR       | \$1,227   | DS-3RST         | 1.15   | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26   |
|       | 1800 | 208-230/460 | 215TC       | U10E2DCR       | \$1,133   | DS-3AL          | 1.25   | 20.1              | 120            | 89.5           | 27.2-24.6/12.3 | 03,NNP     |
|       | 1800 | 208-230/460 | 215TC       | U10P2DCR       | \$1,371   | DS-3AL          | 1.25   | 20.1              | 133            | 91.7           | 26.5-23.9/12   | 03         |
|       | 1800 | 575         | 215TC       | U10E2GCR       | \$1,133   | DS-3AL          | 1.25   | 20.1              | 120            | 89.5           | 9.9            | NNP        |
|       | 1200 | 208-230/460 | 256TC       | U10E3DCR       | \$2,046   | DS-3AL          | 1.25   | 25.7              | 230            | 89.5           | 27.5-25/12.5   | 02,03,NNP  |
|       | 1200 | 208-230/460 | 256TC       | U10P3DCR       | \$2,498   | DS-3AL          | 1.25   | 25.7              | 230            | 91.7           | 27.1-24.6/12.3 | 03         |
|       | 15   | 3600        | 208-230/460 | 215TC          | U15E1DFCR | \$1,450         | DS-3AL | 1.25              | 20.1           | 120            | 90.2           | 40-35/17.7 |
| 3600  |      | 208-230/460 | 215TC       | U15P1DFCR      | \$1,767   | DS-3AL          | 1.25   | 20.1              | 120            | 91.0           | 40-35/17.4     | 03         |
| 3600  |      | 208-230/460 | 254TC       | U15E1DCR       | \$1,739   | DS-3AL          | 1.15   | 23.9              | 210            | 90.2           | 40-35/17.6     | 02,03,NNP  |
| 3600  |      | 208-230/460 | 254TC       | U15P1DCR       | \$2,114   | DS-3AL          | 1.25   | 23.9              | 180            | 91.0           | 39-35/17.5     | 03         |
| 1800  |      | 208-230/460 | 254TC       | U15E2DCR       | \$1,578   | DS-3AL          | 1.25   | 23.9              | 220            | 91.0           | 41-37/18.5     | 02,03,NNP  |
| 1800  |      | 208-230/460 | 254TC       | U15P2DCR       | \$1,913   | DS-3AL          | 1.25   | 23.9              | 180            | 92.4           | 40-37/18.4     | 03         |
| 1800  |      | 575         | 254TC       | U15E2GCR       | \$1,578   | DS-3AL          | 1.25   | 23.9              | 220            | 91.0           | 14.7           | 02,NNP     |
| 20    | 3600 | 208-230/460 | 256TC       | U20E1DCR       | \$2,120   | DS-3AL          | 1.25   | 25.7              | 230            | 90.2           | 53-47/23.4     | 02,03,NNP  |
|       | 3600 | 208-230/460 | 256TC       | U20P1DCR       | \$2,590   | DS-3AL          | 1.25   | 25.8              | 230            | 91.0           | 53-46/23.1     | 03         |
|       | 1800 | 208-230/460 | 256TC       | U20E2DCR       | \$1,913   | DS-3AL          | 1.25   | 25.7              | 250            | 91.0           | 54-49/24.3     | 02,03,NNP  |
|       | 1800 | 208-230/460 | 256TC       | U20P2DCR       | \$2,331   | DS-3AL          | 1.25   | 25.8              | 230            | 93.0           | 53-47/23.5     | 03         |
| 25    | 3600 | 208-230/460 | 284TC       | U25P1DCR       | \$3,208   | DS-3AL          | 1.25   | 28.3              | 280            | 91.7           | 65-57/28.4     | 03         |
|       | 1800 | 208-230/460 | 284TC       | U25E2DCR       | \$2,312   | DS-3AL          | 1.25   | 28.3              | 290            | 92.4           | 67-59/29.6     | 02,03,NNP  |
|       | 1800 | 208-230/460 | 284TC       | U25P2DCR       | \$2,830   | DS-3AL          | 1.25   | 28.3              | 280            | 93.6           | 65-59/29.3     | 03         |
| 30    | 1800 | 208-230/460 | 286TC       | U30E2DCR       | \$2,666   | DS-3AL          | 1.25   | 28.3              | 320            | 92.4           | 80-72/36       | 02,03,NNP  |
|       | 1800 | 208-230/460 | 286TC       | U30P2DCR       | \$3,273   | DS-3AL          | 1.25   | 28.3              | 300            | 93.6           | 78-70/35       | 03         |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate  
 Note 04 On 60 Hertz Sine Wave Power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA (MG-1) performance standards when operated at 208 volts  
 Note 26 Does not include WORLD MOTOR® features  
 Note 103 Does not accept brake kit  
 Note NNP Non-NEMA\* Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Unimount® NEMA® Premium Efficient, C-Face Footless

**NEMA**  
Premium



## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- World Motor® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

UTF,  
FUTF

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes        |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------------|
| 1 1/2 | 1200 | 208-230/460 | 182TC  | U32P3DCR       | \$815   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3    | 03           |
| 2     | 1200 | 208-230/460 | 184TC  | U2E3DCR        | \$682   | DS-3AL          | 1.25 | 16.9              | 70             | 86.5           | 7.0-6.8/3.4    | 03,NNP,LA    |
|       | 1200 | 208-230/460 | 184TC  | U2P3DCR        | \$900   | DS-3AL          | 1.15 | 16.9              | 70             | 88.5           | 6.4-6.2/3.1    | 03           |
| 3     | 3600 | 208-230/460 | 182TC  | U3E1DCR        | \$688   | DS-3AL          | 1.25 | 16.1              | 58             | 85.5           | 8.7-8/4        | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 182TC  | U3P1DCR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03           |
|       | 3600 | 208-230/460 | 182TCH | U3E1DKR        | \$688   | DS-3AL          | 1.25 | 16.1              | 53             | 85.5           | 8.7-8/4        | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 182TCH | U3P1DKR        | \$830   | DS-3AL          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.8/3.9    | 03           |
|       | 1800 | 208-230/460 | 182TC  | U3E2DCR        | \$618   | DS-3AL          | 1.25 | 16.1              | 67             | 87.5           | 8.5-7.9/3.9    | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 182TC  | U3P2DCR        | \$742   | DS-3AL          | 1.25 | 16.1              | 60             | 89.5           | 8.4-7.8/3.9    | 03           |
|       | 1800 | 208-230/460 | 182TCH | U3P2DKR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9    | 03           |
|       | 1800 | 575         | 182TC  | U3P2GCR        | \$742   | DS-3AL          | 1.25 | 16.2              | 60             | 89.5           | 3.2            |              |
|       | 1200 | 208-230/460 | 213TC  | U3E3DCR        | \$920   | DS-3AL          | 1.25 | 18.6              | 110            | 87.5           | 9.7-9.1/4.5    | 03,NNP,LA    |
|       | 1200 | 208-230/460 | 213TC  | U3P3DCR        | \$1,105 | DS-3AL          | 1.25 | 18.6              | 105            | 89.5           | 9.3-8.6/4.3    | 03           |
| 5     | 3600 | 208-230/460 | 184TC  | U5E1DCR        | \$845   | DS-3AL          | 1.25 | 16.9              | 120            | 87.5           | 13.8-12.3/6.1  | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 184TC  | U5P1DCR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03           |
|       | 3600 | 208-230/460 | 184TCH | U5P1DKR        | \$1,026 | DS-3AL          | 1.25 | 16.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03           |
|       | 1800 | 208-230/460 | 184TC  | U5E2DCR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | NNP,LA       |
|       | 1800 | 208-230/460 | 184TC  | U5P2DCR        | \$852   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  | 03           |
|       | 1800 | 208-230/460 | 184TC  | U5P2GCR        | \$852   | DS-3AL          | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  | 03           |
|       | 1800 | 208-230/460 | 184TCH | U5E2DKR        | \$706   | DS-3AL          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 184TCH | U5P2DKR        | \$852   | DS-3AL          | 1.25 | 16.9              | 70             | 90.2           | 13.6-12.3/6.2  | 03           |
|       | 1200 | 208-230/460 | 215TC  | U5E3DCR        | \$1,278 | DS-3AL          | 1.25 | 20.1              | 140            | 87.5           | 15.6-14.5/7.3  | 03,NNP,LA    |
|       | 1200 | 208-230/460 | 215TC  | U5P3DCR        | \$1,552 | DS-3AL          | 1.25 | 20.1              | 120            | 90.2           | 15-14/7        | 03           |
|       | 1200 | 575         | 215TC  | U5E3GCR        | \$1,278 | DS-3AL          | 1.25 | 20.1              | 140            | 87.5           | 5.8            | NNP,LA       |
|       | 3600 | 208-230/460 | 213TC  | U7E1DCR        | \$1,045 | DS-3AL          | 1.25 | 18.6              | 100            | 88.5           | 20.4-18.4/9.2  | 03,NNP,LA    |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | U7P1DCR        | \$1,261 | DS-3AL          | 1.25 | 18.6              | 105            | 91.0           | 19.9-17.8/8.9  | 03           |
|       | 1800 | 208-230/460 | 213TC  | U7E2DCR        | \$954   | DS-3AL          | 1.15 | 18.6              | 110            | 89.5           | 20.6-18.8/9.4  | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 213TC  | U7P2DCR        | \$1,147 | DS-3AL          | 1.25 | 18.6              | 110            | 91.7           | 20-18.2/9.1    | 03           |
|       | 1800 | 575         | 213TC  | U7P2GCR        | \$1,147 | DS-3AL          | 1.25 | 18.6              | 105            | 91.7           | 7.2            |              |
|       | 1200 | 208-230/460 | 254TC  | U7E3DCR        | \$1,718 | DS-3AL          | 1.25 | 23.9              | 200            | 89.5           | 20.8-18.8/9.4  | 02,03,NNP,LA |
|       | 1200 | 208-230/460 | 254TC  | U7P3DCR        | \$2,087 | DS-3AL          | 1.25 | 23.9              | 180            | 91.0           | 20.6-19/9.5    | 03           |
| 10    | 3600 | 208-230/460 | 215TC  | U10E1DCR       | \$1,209 | DS-3AL          | 1.25 | 20.1              | 110            | 89.5           | 26.7-23.8/11.9 | 03,NNP,LA    |
|       | 3600 | 208-230/460 | 215TC  | U10P1DCR       | \$1,466 | DS-3AL          | 1.25 | 20.1              | 120            | 91.0           | 26.4-23.5/11.8 | 03           |
|       | 1800 | 208-230/460 | 215TC  | U10E2DCR       | \$1,133 | DS-3AL          | 1.25 | 20.1              | 120            | 89.5           | 27.2-24.6/12.3 | 03,NNP,LA    |
|       | 1800 | 208-230/460 | 215TC  | U10P2DCR       | \$1,371 | DS-3AL          | 1.25 | 20.1              | 133            | 91.7           | 26.5-23.9/12   | 03           |
|       | 1800 | 575         | 215TC  | U10P2GCR       | \$1,371 | DS-3AL          | 1.25 | 20.1              | 120            | 91.7           | 9.6            |              |
|       | 1200 | 208-230/460 | 256TC  | U10E3DCR       | \$2,046 | DS-3AL          | 1.25 | 25.7              | 230            | 89.5           | 27.5-25/12.5   | 02,03,NNP,LA |
|       | 1200 | 208-230/460 | 256TC  | U10P3DCR       | \$2,498 | DS-3AL          | 1.25 | 25.7              | 230            | 91.7           | 27.1-24.6/12.3 | 03           |
|       | 3600 | 208-230/460 | 215TC  | U15E1DFCR      | \$1,450 | DS-3AL          | 1.25 | 20.1              | 120            | 90.2           | 40-35/17.7     | 02,03,NNP,LA |
| 15    | 3600 | 208-230/460 | 215TC  | U15P1DFCR      | \$1,767 | DS-3AL          | 1.25 | 20.1              | 120            | 91.0           | 40-35/17.4     | 03           |
|       | 3600 | 208-230/460 | 254TC  | U15E1DCR       | \$1,739 | DS-3AL          | 1.15 | 23.9              | 210            | 90.2           | 40-35/17.6     | 02,03,NNP,LA |
|       | 3600 | 208-230/460 | 254TC  | U15P1DCR       | \$2,114 | DS-3AL          | 1.25 | 23.9              | 180            | 91.0           | 39-35/17.5     | 03           |
|       | 1800 | 208-230/460 | 254TC  | U15E2DCR       | \$1,578 | DS-3AL          | 1.25 | 23.9              | 220            | 91.0           | 41-37/18.5     | 02,03,NNP,LA |
|       | 1800 | 208-230/460 | 254TC  | U15P2DCR       | \$1,913 | DS-3AL          | 1.15 | 23.9              | 180            | 92.4           | 40-37/18.4     | 03           |
|       | 1800 | 575         | 254TC  | U15P2GCR       | \$1,913 | DS-3AL          | 1.25 | 23.9              | 180            | 92.4           | 14.6           |              |
|       | 3600 | 208-230/460 | 256TC  | U20E1DCR       | \$2,120 | DS-3AL          | 1.25 | 25.7              | 230            | 90.2           | 53-47/23.4     | 02,03,NNP,LA |
|       | 3600 | 208-230/460 | 256TC  | U20P1DCR       | \$2,590 | DS-3AL          | 1.25 | 25.8              | 230            | 91.0           | 53-46/23.1     | 03           |
| 20    | 1800 | 208-230/460 | 256TC  | U20E2DCR       | \$1,913 | DS-3AL          | 1.25 | 25.7              | 250            | 91.0           | 54-49/24.3     | 02,03,NNP,LA |
|       | 1800 | 208-230/460 | 256TC  | U20P2DCR       | \$2,331 | DS-3AL          | 1.25 | 25.8              | 230            | 93.0           | 53-47/23.5     | 03           |
|       | 3600 | 208-230/460 | 284TC  | U25P1DCR       | \$3,208 | DS-3AL          | 1.25 | 28.3              | 280            | 91.7           | 65-57/28.4     | 03           |
|       | 1800 | 208-230/460 | 284TC  | U25E2DCR       | \$2,312 | DS-3AL          | 1.25 | 28.3              | 290            | 92.4           | 67-59/29.6     | 02,03,NNP,LA |
| 25    | 1800 | 208-230/460 | 284TC  | U25P2DCR       | \$2,830 | DS-3AL          | 1.25 | 28.3              | 280            | 93.6           | 65-59/29.3     | 03           |
|       | 3600 | 208-230/460 | 286TC  | U30E2DCR       | \$2,666 | DS-3AL          | 1.25 | 28.3              | 320            | 92.4           | 80-72/36       | 02,03,NNP,LA |
| 30    | 1800 | 208-230/460 | 286TC  | U30P2DCR       | \$3,273 | DS-3AL          | 1.25 | 28.3              | 300            | 93.6           | 78-70/35       | 03           |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

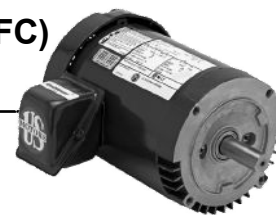
Note LA Limited Availability

Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footless



## APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

## FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate (140 Frames and Ratings with Note 03)
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®1 Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame and Up)
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes      |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|------------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | 1.25 | 10.8              | 23             | 70.0           | 1-1/0.5        | 16         |
|       | 1200 | 208-230/460 | 56C   | T14S3DCR       | \$308 | DS-3RST         | 1.15 | 11.3              | 27             | 75.5           | 1.4-1.4/0.7    | 26,103     |
| 1/3   | 3600 | 208-230/460 | 56C   | T13S1ACR       | \$279 | DS-3RST         | 1.15 | 10.9              | 32             | 74.6           | 1.7-1.8/0.9    | 103        |
|       | 1800 | 208-230/460 | 42CZ  | T13S2D42ZCR    | \$266 | DS-3RST         | 1.00 | 11.6              | 9              | 75.5           | 1.5-1.5/0.75   | 26         |
|       | 1800 | 208-230/460 | 56C   | U13S2ACR       | \$266 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.2-1.2/0.6    | 16         |
|       | 1800 | 575         | 56C   | T13S2GCR       | \$266 | DS-3RST         | 1.15 | 11.4              | 26             | 75.3           | 0.59           | 103        |
|       | 1200 | 208-230/460 | 56C   | T13S3DCR       | \$346 | DS-3RST         | 1.15 | 11.3              | 32             | 77.0           | 1.6-1.6/0.80   | 26,103     |
| 1/2   | 3600 | 208-230/460 | 56C   | T12S1ACR       | \$291 | DS-3RST         | 1.15 | 10.9              | 32             | 64.0           | 2.18-2.18/1.09 | 103        |
|       | 1800 | 208-230/460 | 56C   | U12P2DCR       | \$378 | DS-3RST         | 0.00 | 12.1              | 30             | 82.5           | 1.8-1.9/0.9    | 03         |
|       | 1800 | 208-230/460 | 56C   | U12S2ACR       | \$291 | DS-3RST         | 1.25 | 10.8              | 25             | 75.5           | 1.8-1.7/0.9    | 16         |
|       | 1800 | 575         | 56C   | U12S2GCR       | \$291 | DS-3RST         | 1.25 | 10.8              | 27             | 74.0           | 0.7            |            |
|       | 1200 | 208-230/460 | 56C   | U12S3ACR       | \$378 | DS-3RST         | 1.25 | 10.8              | 25             | 72.0           | 2.1-2.1/1      | 16         |
| 3/4   | 3600 | 208-230/460 | 56C   | U34S1ACR       | \$304 | DS-3RST         | 1.25 | 10.8              | 27             | 75.5           | 2.4-2.2/1.1    | 16         |
|       | 1800 | 208-230/460 | 56C   | U34P2DCR       | \$408 | DS-3RST         | 1.25 | 12.1              | 30             | 84.0           | 2.4-2.3/1.1    | 03         |
|       | 1800 | 208-230/460 | 56C   | U34S2ACR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 78.5           | 2.6-2.7/1.3    | 16         |
|       | 1800 | 575         | 56C   | U34S2GCR       | \$314 | DS-3RST         | 1.25 | 10.8              | 28             | 80.0           | 0.9            |            |
|       | 1200 | 208-230/460 | 56C   | U34S3ACR       | \$449 | DS-3RST         | 1.15 | 12.9              | 32             | 79.6           | 3.1-3.2/1.6    | 103        |
| 1     | 3600 | 208-230/460 | 56C   | U1P1DCR        | \$488 | DS-3RST         | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4    | 03         |
|       | 3600 | 208-230/460 | 56C   | U1S1ACR        | \$345 | DS-3RST         | 1.25 | 10.8              | 38             | 75.5           | 3.2-2.9/1.4    | 16,NNP,LA  |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$425 | DS-3RST         | 1.25 | 10.8              | 30             | 85.5           | 3.1-3.0/1.5    | 03         |
|       | 1800 | 208-230/460 | 143TC | U1E2DCR        | \$403 | DS-3RST         | 1.25 | 12.1              | 30             | 82.5           | 3.1-3/1.5      | NNP,LA     |
|       | 1800 | 208-230/460 | 143TC | U1P2DCR        | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03         |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$488 | DS-3RST         | 1.25 | 12.1              | 30             | 85.5           | 3.1-3/1.5      | 03         |
|       | 1800 | 208-230/460 | 56C   | U1S2AFCR       | \$332 | DS-3RST         | 1.25 | 10.8              | 31             | 80.0           | 3.3-3.4/1.7    | 16,NNP,LA  |
|       | 1800 | 575         | 56C   | U1P2GFCR       | \$425 | DS-3RST         | 1.25 | 13.1              | 30             | 85.5           | 1.1            |            |
|       | 1800 | 575         | 56C   | U1S2GFCR       | \$332 | DS-3RST         | 1.25 | 12.1              | 31             | 80.0           | 1.4            | NNP,LA     |
|       | 1200 | 208-230/460 | 56C   | T1S3ACR        | \$456 | DS-3RST         | 1.15 | 13.4              | 32             | 83.0           | 3.7-3.8/1.9    | 103,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 143TC | U32E1A14CR     | \$552 | DS-3RST         | 1.15 | 11.9              | 32             | 84.0           | 4.9-5.0/2.5    | 103,NNP,LA |
|       | 3600 | 208-230/460 | 56C   | T32P1ACR       | \$485 | DS-3RST         | 1.15 | 12.3              | 32             | 84.0           | 4.9-5.0/2.5    |            |
|       | 3600 | 208-230/460 | 56C   | T32S1ACR       | \$385 | DS-3RST         | 1.15 | 11.9              | 27             | 80.0           | 4.7-4.5/2.2    | 103,NNP,LA |
|       | 1800 | 208-230/460 | 145TC | U32E2DCR       | \$439 | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 4.6-4.3/2.2    | NNP,LA     |
|       | 1800 | 208-230/460 | 145TC | U32P2DCR       | \$534 | DS-3RST         | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1    | 03         |
|       | 1800 | 208-230/460 | 56C   | T32E2ACR       | \$439 | DS-3RST         | 1.25 | 12.9              | 32             | 84.0           | 4.5-4.5/2.2    | 103,NNP,LA |
|       | 1800 | 208-230/460 | 56C   | U32P2DFCR      | \$426 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1    | 03         |
|       | 1800 | 208-230/460 | 56C   | U32S2AFCR      | \$369 | DS-3RST         | 1.25 | 10.8              | 33             | 81.5           | 4.7-4.7/2.3    | 16,NNP,LA  |
|       | 1800 | 575         | 145TC | U32E2GCR       | \$439 | DS-3RST         | 1.25 | 12.1              | 35             | 84.0           | 1.8            | NNP,LA     |
|       | 1800 | 575         | 56C   | U32P2GFCR      | \$426 | DS-3RST         | 1.25 | 13.1              | 30             | 86.5           | 1.7            |            |
|       | 1200 | 208-230/460 | 56C   | T32S3ACR       | \$564 | DS-3RST         | 1.15 | 14.4              | 32             | -              | 5.4-5.3/2.6    | 103,NNP,LA |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.

Note 04 On 60 Hertz Sine Wave power.

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®1 (MG-1) performance standards when operated at 208 volts.

Note 26 Does not include World Motor® features.

Note 103 Does not accept brake kit.

Note LA Limited Availability

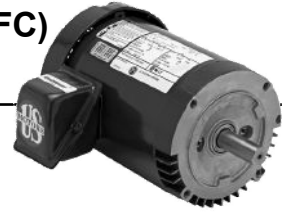
Note NNP Non-NEMA®1 Premium Rating

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE™ C-Face Footless



| HP   | RPM   | Voltage     | Frame       | Catalog Number | List    | Discount Symbol | SF      | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes         |
|------|-------|-------------|-------------|----------------|---------|-----------------|---------|-------------------|----------------|----------------|----------------|---------------|
| 2    | 3600  | 208-230/460 | 56C         | T2P1ACR        | \$529   | DS-3RST         | 1.15    | 13.6              | 35             | 85.5           | 6.0-5.6/2.8    | 04,16,26      |
|      | 3600  | 208-230/460 | 56C         | T2S1ACR        | \$460   | DS-3RST         | 1.15    | 11.9              | 32             | 80.0           | 6.0-5.4/2.7    | 103,NNP,LA    |
|      | 1800  | 208-230/460 | 145TC       | U2E2DCR        | \$475   | DS-3RST         | 1.25    | 12.1              | 35             | 84.0           | 6.1-5.9/2.9    | ,NNP,LA       |
|      | 1800  | 208-230/460 | 145TC       | U2P2DCR        | \$578   | DS-3RST         | 1.25    | 13.1              | 45             | 86.5           | 5.9-5.7/2.8    | 03            |
|      | 1800  | 208-230/460 | 56C         | U2P2DFCR       | \$467   | DS-3RST         | 1.25    | 13.1              | 30             | 86.5           | 5.9-5.7/2.8    | 03            |
|      | 1800  | 208-230/460 | 56C         | U2S2AFCR       | \$406   | DS-3RST         | 1.25    | 12.1              | 43             | 82.5           | 6.2-6.2/3.1    | 16,NNP,LA     |
| 3    | 3600  | 208-230/460 | 145TC       | U3E1A14CR      | \$528   | DS-3RST         | 1.25    | 13.4              | 32             | 85.5           | 8.5-7.3/3.6    | 103,NNP,LA    |
|      | 3600  | 208-230/460 | 145TC       | U3P1A14CR      | \$607   | DS-3RST         | 1.25    | 13.9              | 34             | 86.5           | 7.4-7.5/3.7    | 04,16,26      |
|      | 3600  | 208-230/460 | 56C         | T3P1ACR        | \$583   | DS-3RST         | 1.15    | 14.1              | 40             | 86.5           | 7.9-6.7/3.4    |               |
|      | 3600  | 208-230/460 | 56C         | T3S1ACR        | \$507   | DS-3RST         | 1.15    | 13.4              | 32             | 86.0           | 8.5-7.3/3.6    | 103,NNP,LA    |
|      | 1800  | 208-230/460 | 182TC       | S3E2ACR        | \$569   | DS-3RST         | 1.15    | 15.9              | 85             | 87.5           | 8.5-7.9/3.9    | 26,NNP,LA     |
|      | 1800  | 208-230/460 | 182TC       | S3P2ACR        | \$639   | DS-3RST         | 1.15    | 15.9              | 60             | 89.5           | 8.4-7.8/3.9    | 04,16,26      |
| 5    | 1800  | 208-230/460 | 56C         | T3S2ACR        | \$517   | DS-3RST         | 1.00    | 14.9              | 50             | 87.5           | 9.5-9.2/4.6    | 103,NNP,LA    |
|      | 3600  | 208-230/460 | 184TC       | S5E1ACR        | \$655   | DS-3RST         | 1.15    | 15.9              | 65             | 87.5           | 13.7-12.3/6.1  | 26,NNP,LA     |
|      | 3600  | 208-230/460 | 184TC       | S5P1ACR        | \$740   | DS-3RST         | 1.15    | 15.9              | 70             | 88.5           | 13.6-12.1/6.1  | 04,16,26      |
|      | 1800  | 208-230/460 | 184TC       | S5E2ACR        | \$655   | DS-3RST         | 1.15    | 15.9              | 110            | 87.5           | 14.2-12.8/6.4  | 26,NNP,LA     |
|      | 1800  | 208-230/460 | 184TC       | S5P2ACR        | \$740   | DS-3RST         | 1.15    | 15.9              | 70             | 89.5           | 13.5-12.5/6.2  | 04,16,26      |
|      | 7 1/2 | 3600        | 208-230/460 | 213TC          | S7E1ACR | \$959           | DS-3RST | 1.15              | 19.4           | 55             | 88.5           | 20.6-18.4/9.2 |
| 3600 |       | 208-230/460 | 213TC       | S7P1ACR        | \$1,083 | DS-3RST         | 1.15    | 19.4              | 105            | 89.5           | 19.9-17.9/9    | 04,16,26      |
| 3600 |       | 575         | 213TC       | S7P1GCR        | \$1,083 | DS-3RST         | 1.15    | 19.4              | 105            | 89.5           | 7.2            |               |
| 1800 |       | 208-230/460 | 213TC       | S7E2ACR        | \$913   | DS-3RST         | 1.15    | 19.4              | 90             | 89.5           | 20.1-18.3/9.1  | 26,NNP,LA     |
| 1800 |       | 208-230/460 | 213TC       | S7P2ACR        | \$1,029 | DS-3RST         | 1.15    | 19.4              | 105            | 91.7           | 20-18.1/9.1    | 04,16,26      |
| 1800 |       | 575         | 213TC       | S7P2GCR        | \$1,029 | DS-3RST         | 1.15    | 19.4              | 105            | 91.7           | 7.2            |               |
| 10   | 3600  | 208-230/460 | 215TC       | S10P1ACR       | \$1,291 | DS-3RST         | 1.15    | 19.4              | 120            | 90.2           | 26.5-23.5/11.7 | 04,16,26      |
|      | 3600  | 575         | 215TC       | S10P1GCR       | \$1,291 | DS-3RST         | 1.15    | 19.4              | 120            | 90.2           | 9.4            |               |
|      | 1800  | 208-230/460 | 215TC       | S10E2ACR       | \$1,081 | DS-3RST         | 1.15    | 19.4              | 120            | 89.5           | 26.6-23.8/11.9 | 26,NNP,LA     |
|      | 1800  | 208-230/460 | 215TC       | S10P2ACR       | \$1,227 | DS-3RST         | 1.15    | 19.4              | 120            | 91.7           | 26.5-23.9/11.9 | 04,16,26      |
|      | 1800  | 575         | 215TC       | S10P2GCR       | \$1,227 | DS-3RST         | 1.15    | 19.4              | 120            | 91.7           | 9.5            |               |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.  
 Note 04 On 60 Hertz Sine Wave power.  
 Note 16 Motors marked 208-230/460 volts may not meet all NEMA®† (MG-1) performance standards when operated at 208 volts.

Note 26 Does not include World Motor® features.  
 Note 103 Does not accept brake kit.  
 Note LA Limited Availability  
 Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient – IE3, C-Face

## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.



TCE

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame & Fan Cover On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Precision Balance (< 0.08 In/Sec Vibration)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-210
- Oversized Conduit Box - 1 Size Larger Than NEMA®† Standard
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Field Convertible To F2 Mounting 180 Frame & Larger
- Condensation Drains With Threaded Brass Breather Plugs

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1 1/2 | 3600 | 230/460 | 143TC | C32P1BC        | \$742   | DS-3CE          | 1.15 | 13.5              | 57             | 84.0           | 3.9/1.9        |       |
|       | 1800 | 230/460 | 145TC | C32P2BC        | \$717   | DS-3CE          | 1.15 | 13.5              | 72             | 86.5           | 4.3/2.1        |       |
| 2     | 3600 | 230/460 | 145TC | C2P1BC         | \$864   | DS-3CE          | 1.15 | 13.5              | 72             | 86.5           | 4.9/2.4        |       |
|       | 1800 | 230/460 | 145TC | C2P2BC         | \$777   | DS-3CE          | 1.15 | 13.5              | 70             | 86.5           | 5.6/2.8        |       |
| 3     | 3600 | 230/460 | 182TC | C3P1BC         | \$960   | DS-3CE          | 1.15 | 16.4              | 70             | 88.5           | 7.8/3.9        |       |
|       | 1800 | 230/460 | 182TC | C3P2BC         | \$859   | DS-3CE          | 1.15 | 17.4              | 100            | 89.5           | 7.8/3.9        |       |
| 5     | 3600 | 230/460 | 184TC | C5P1BC         | \$1,180 | DS-3CE          | 1.15 | 17.4              | 110            | 88.5           | 12.2/6.1       |       |
|       | 1800 | 230/460 | 184TC | C5P2BC         | \$983   | DS-3CE          | 1.15 | 17.4              | 120            | 89.5           | 12.5/6.3       |       |
| 7 1/2 | 3600 | 230/460 | 213TC | C7P1BC         | \$1,460 | DS-3CE          | 1.15 | 20.8              | 160            | 91.0           | 17.8/8.9       |       |
|       | 1800 | 230/460 | 213TC | C7P2BC         | \$1,331 | DS-3CE          | 1.15 | 20.8              | 160            | 91.0           | 18.6/9.3       |       |
| 10    | 3600 | 230/460 | 215TC | C10P1BC        | \$1,691 | DS-3CE          | 1.15 | 20.8              | 185            | 91.0           | 23.5/11.8      |       |
|       | 1800 | 230/460 | 215TC | C10P2BC        | \$1,584 | DS-3CE          | 1.15 | 20.8              | 200            | 91.7           | 23.9/12        |       |

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) 841 PLUS® NEMA®† Premium Efficient – IE3



CEF

## APPLICATIONS:

For constant speed and inverter duty applications in petro-chemical, pulp & paper, automotive, mining and waste treatment industries.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction
- Corrosion Resistant Mill & Chem Duty Paint (250 Hour Salt Spray Test)
- Stainless Steel Nameplate (with "CE" Mark) & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX® Bearing Isolators By Inpro/Seal For IP55 Protection
- 5 Year Warranty (3 Years on Inverter Power)
- Same Size Regreaseable Open Bearings & Internal Bearing Caps (180 Frame & Up)
- External Grounding Provision, Epoxy Coated Rotor
- 10:1 Variable Torque; 5:1 Constant Torque On Inverter Power
- Precision Balance (< 0.05 In/Sec Vibration)
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power

## C-Face Footless

| HP    | RPM  | Voltage | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 460     | 143TC  | 8P1P2CCR       | \$881   | DS-841          | 1.15 | 13.5              | 65             | 85.5           | 1.5            |       |
|       | 1800 | 460     | 143TC  | 8P1P2CCR2      | \$881   | DS-841          | 1.15 | 13.5              | 65             | 85.5           | 1.5            |       |
|       | 1200 | 460     | 145TC  | 8P1P3CCR       | \$1,164 | DS-841          | 1.15 | 13.5              | 73             | 82.5           | 1.8            |       |
| 1 1/2 | 3600 | 460     | 143TC  | 8P32P1CCR      | \$971   | DS-841          | 1.15 | 13.5              | 68             | 84.0           | 1.9            |       |
|       | 1800 | 460     | 145TC  | 8P32P2CCR      | \$937   | DS-841          | 1.15 | 13.5              | 73             | 86.5           | 2.1            |       |
| 2     | 3600 | 460     | 145TC  | 8P2P1CCR       | \$1,119 | DS-841          | 1.15 | 13.5              | 73             | 85.5           | 2.5            |       |
|       | 1800 | 460     | 145TC  | 8P2P2CCR       | \$1,003 | DS-841          | 1.15 | 13.5              | 70             | 86.5           | 2.8            |       |
|       | 1800 | 460     | 145TC  | 8P2P2CCR2      | \$1,003 | DS-841          | 1.15 | 13.5              | 70             | 86.5           | 2.8            |       |
|       | 1200 | 460     | 184TCH | 8P2P3CKR       | \$1,350 | DS-841          | 1.15 | 17.4              | 115            | 87.5           | 3.1            |       |
| 3     | 3600 | 460     | 182TCH | 8P3P1CKR       | \$1,192 | DS-841          | 1.15 | 17.4              | 100            | 88.5           | 3.9            |       |
|       | 1800 | 460     | 182TC  | 8P3P2CCR       | \$1,064 | DS-841          | 1.15 | 17.4              | 115            | 89.5           | 3.9            |       |
|       | 1200 | 460     | 213TC  | 8P3P3CCR       | \$1,576 | DS-841          | 1.15 | 20.8              | 165            | 89.5           | 4.4            |       |
| 5     | 1800 | 460     | 184TC  | 8P5P2CCR       | \$1,212 | DS-841          | 1.00 | 17.4              | 110            | 89.5           | 6.3            |       |
|       | 1800 | 460     | 184TCH | 8P5P2CKR       | \$1,212 | DS-841          | 1.15 | 17.4              | 110            | 90.2           | 6.3            |       |
|       | 1200 | 460     | 215TC  | 8P5P3CCR       | \$2,199 | DS-841          | 1.00 | 20.8              | 220            | 89.5           | 7              |       |
| 7 1/2 | 3600 | 460     | 213TC  | 8P7P1CCR       | \$1,702 | DS-841          | 1.15 | 20.8              | 160            | 89.5           | 9.3            |       |
|       | 1800 | 460     | 213TC  | 8P7P2CCR       | \$1,550 | DS-841          | 1.15 | 20.8              | 160            | 91.0           | 9.2            |       |
| 10    | 3600 | 460     | 215TC  | 8P10P1CCR      | \$1,962 | DS-841          | 1.15 | 20.8              | 185            | 91.0           | 11.8           |       |
|       | 1800 | 460     | 215TC  | 8P10P2CCR      | \$1,837 | DS-841          | 1.15 | 20.8              | 200            | 91.0           | 12             |       |

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GEN. PURPOSE  
UNIMOUNT  
GENERAL PURPOSE  
STEEL EDGE™  
GENERAL PURPOSE  
HOSTILE DUTY  
GENERAL PURPOSE  
CORRO-DUTY™  
GENERAL PURPOSE  
841 PLUS®  
GENERAL PURPOSE  
OPEN DRIPPROOF  
GENERAL PURPOSE  
HAZARDOUS  
LOCATION  
GENERAL PURPOSE  
AUTOMOTIVE DUTY  
COOLING TOWER  
DUTY  
HAZARDOUS  
LOCATION  
C-FACE MOTORS  
ALL TYPES  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location Dual & Single Label, C-Face

## APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.



EF, LF

## FEATURES:

### For all Products Listed in this Section:

- UL® Listed & CSA® Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below

### For Catalog Numbers Beginning with "X" or "Y":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sine Wave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

### For Catalog Numbers Beginning with "XS":

- Aluminum End Brackets & Conduit Box
- Class B Insulation
- Steel Frame

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/3   | 1800 | 208-230/460 | 56C   | XS13SA2DCR     | \$490   | DS-3CXD         | 1.15 | 13.3              | 29             | -              | 1.4-1.3/0.65   | 13,24  |
|       | 1800 | 230/460     | 56C   | Y13S2BCR       | \$638   | DS-3F           | 1.00 | 11.6              | 49             | 74.0           | 1.5/0.7        |        |
| 1/2   | 1800 | 208-230/460 | 56C   | XS12SA2DCR     | \$530   | DS-3CXD         | 1.15 | 13.3              | 30             | -              | 2.0-1.9/1.0    |        |
|       | 1800 | 230/460     | 56C   | Y12S2BCR       | \$672   | DS-3F           | 1.00 | 11.6              | 48             | 77.0           | 1.7/0.9        |        |
| 3/4   | 3600 | 208-230/460 | 56C   | XS34S1ACR      | \$630   | DS-3CXD         | 1.15 | 13.3              | 32             | -              | 2.7-2.6/1.3    |        |
|       | 1800 | 208-230/460 | 56C   | XS34SA2ACR     | \$601   | DS-3CXD         | 1.15 | 14.3              | 32             | -              | 2.8-2.9/1.4    | 13,24  |
|       | 1800 | 230/460     | 56C   | Y34S2BCR       | \$708   | DS-3F           | 1.00 | 11.6              | 55             | 78.5           | 2.7/1.3        |        |
| 1     | 3600 | 208-230/460 | 56C   | XS1S1ACR       | \$576   | DS-3CXD         | 1.15 | 13.8              | 32             | -              | 3.2-3.0/1.5    | LA     |
|       | 1800 | 208-230/460 | 143TC | XS1P2ACR       | \$760   | DS-3CXD         | 1.15 | 15.3              | 42             | 85.5           | 3.3-3.3/1.6    |        |
|       | 1800 | 208-230/460 | 56C   | XS1PA2ACR      | \$800   | DS-3CXD         | 1.15 | 14.8              | 40             | 85.5           | 3.2-3.1/1.5    | 13,24  |
|       | 1800 | 208-230/460 | 56C   | XS1SA2ACR      | \$742   | DS-3CXD         | 1.15 | 14.3              | 32             | 82.5           | 3.4-3.3/1.7    | LA     |
|       | 1800 | 230/460     | 143TC | X1E2BCR        | \$680   | DS-3CX          | 1.15 | 13.3              | 60             | 85.5           | 3/1.5          | 51, LA |
|       | 1800 | 230/460     | 143TC | X1P2BCR        | \$779   | DS-3CXD         | 1.00 | 13.3              | 60             | 85.5           | 3/1.5          |        |
| 1 1/2 | 1800 | 208-230/460 | 143TC | XS32P2ACR      | \$838   | DS-3CXD         | 1.15 | 15.8              | 50             | 86.5           | 4.9-4.8/2.4    |        |
|       | 1800 | 230/460     | 145TC | X32E2BCR       | \$746   | DS-3CXD         | 1.15 | 13.4              | 75             | 86.5           | 4.3/2.1        | LA     |
|       | 1800 | 230/460     | 145TC | X32P2BCR       | \$852   | DS-3CXD         | 1.00 | 13.3              | 75             | 86.5           | 4.3/2.1        |        |
| 2     | 1800 | 208-230/460 | 145TC | XS2P2ACR       | \$910   | DS-3CXD         | 1.15 | 15.8              | 45             | 86.5           | 6.2-6.0/3.0    |        |
|       | 1800 | 230/460     | 145TC | X2E2BCR        | \$909   | DS-3CXD         | 1.00 | 13.4              | 75             | 86.5           | 5.6/2.8        | LA     |
|       | 1800 | 230/460     | 145TC | X2P2BCR        | \$925   | DS-3CXD         | 1.00 | 13.3              | 75             | 86.5           | 5.2/2.6        |        |
| 3     | 1800 | 230/460     | 182TC | X3P2BCR        | \$1,066 | DS-3CXD         | 1.15 | 16.3              | 105            | 89.5           | 7.7/3.8        |        |
|       | 1800 | 230/460     | 184TC | X5E2BCR        | \$1,070 | DS-3CXD         | 1.00 | 16.3              | 118            | 87.5           | 12.7/6.4       | LA     |
| 5     | 1800 | 230/460     | 184TC | X5P2BCR        | \$1,216 | DS-3CXD         | 1.00 | 16.3              | 118            | 89.5           | 12.5/6.2       |        |
|       | 1800 | 230/460     | 213TC | X7E2BCR        | \$1,443 | DS-3CXD         | 1.00 | 20.0              | 160            | 89.5           | 18.6/9.3       | LA     |
| 7 1/2 | 1800 | 230/460     | 213TC | X7P2BCR        | \$1,604 | DS-3CXD         | 1.00 | 20.0              | 160            | 91.7           | 18.6/9.3       |        |
|       | 1800 | 230/460     | 215TC | X10E2BCR       | \$1,720 | DS-3CXD         | 1.00 | 20.0              | 190            | 90.2           | 25.5/12.8      | LA     |
| 10    | 1800 | 230/460     | 215TC | X10P2BCR       | \$1,906 | DS-3CXD         | 1.00 | 20.0              | 190            | 91.7           | 23.9/12        |        |
|       | 1800 | 230/460     | 254TC | X15E2BCR       | \$2,330 | DS-3CXD         | 1.00 | 26.1              | 316            | 91.0           | 37/18.5        | LA     |
| 15    | 1800 | 230/460     | 254TC | X15P2BCR       | \$2,557 | DS-3CXD         | 1.00 | 25.6              | 316            | 92.4           | 37/18.3        |        |

13 Steel Frame Construction  
24 Automatic Reset Thermal Protector Overload

51 Equipped with Winding Thermostat  
LA Limited Availability

† All marks shown within this document are properties of their respective owners.



# General Purpose Single Phase, Div.1 Hazardous Location Class I (Group C&D), Class II (Group E, F, & G)



## APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment located in hazardous areas.

## FEATURES:

- UL<sup>®</sup> Listed & CSA<sup>®</sup> Certified
- Temperature Code T3C
- Class B Insulation
- Continuous Duty
- Totally Enclosed Fan Cooled Except Where Noted
- 40°C Ambient Rated
- F1 Assembly

## Footed

| HP  | RPM  | Voltage             | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps      | Notes |
|-----|------|---------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|---------------------|-------|
| 1/4 | 1800 | 115/208-230&110/220 | 56    | XS14CA2J       | \$482   | DS-3FMP         | 1.00 | 12.5              | 32             | 5.1/2.5-2.5&5.6/2.8 | 24    |
|     | 1200 | 115/230             | 56    | XS14CA3P       | \$706   | DS-3FMP         | 1.00 | 13.0              | 32             | 6.8/3.4             | 24    |
| 1/3 | 3600 | 115/208-230         | 56    | XS13CA1J       | \$560   | DS-3FMP         | 1.00 | 13.2              | 29             | 8.0/3.6-4.0         | 24    |
|     | 1800 | 115/208-230         | 56    | XS13CA2J       | \$512   | DS-3FMP         | 1.00 | 12.7              | 32             | 6.8/3.3-3.4         | 24    |
|     | 1200 | 115/230             | 56    | XS13CA3P       | \$912   | DS-3FMP         | 1.00 | 12.7              | 32             | 7.2/3.6             | 24    |
| 1/2 | 3600 | 115/208-230         | 56    | XS12CA1J       | \$608   | DS-3FMP         | 1.00 | 13.2              | 29             | 8.8/4.1-4.4         | 24    |
|     | 1800 | 115/208-230         | 56    | XS12CA2J       | \$563   | DS-3FMP         | 1.00 | 13.2              | 32             | 9.8/4.9-4.9         | 24    |
|     | 1200 | 115/230             | 56H   | XS12CA3P       | \$1,053 | DS-3FMP         | 1.00 | 14.2              | 32             | 10.0/5.0            | 24    |
| 3/4 | 3600 | 115/208-230         | 56    | XS34CA1J       | \$686   | DS-3FMP         | 1.00 | 13.2              | 32             | 10.4/5.3-5.2        | 24    |
|     | 1800 | 115/208-230         | 56    | XS34CA2J       | \$630   | DS-3FMP         | 1.00 | 13.7              | 32             | 12.6/6.3-6.3        | 24    |
| 1   | 3600 | 115/208-230         | 56    | XS1CA1J        | \$608   | DS-3FMP         | 1.00 | 14.2              | 41             | 12.0/6.3-6.0        | 24    |
|     | 1800 | 115/208-230         | 56H   | XS1CA2JH       | \$714   | DS-3FMP         | 1.00 | 14.2              | 32             | 14.0/6.9-7.0        | 24    |

## C-Face Footless

| HP  | RPM  | Voltage             | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps      | Notes    |
|-----|------|---------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|---------------------|----------|
| 1/4 | 1800 | 115/208-230&110/220 | 56C   | XS14CA2JCR     | \$482 | DS-3FMP         | 1.00 | 11.9              | 32             | 5.1/2.5-2.5&5.6/2.8 | 24,28,78 |
| 1/3 | 3600 | 115/208-230         | 56C   | XS13CA1JCR     | \$614 | DS-3FMP         | 1.00 | 13.3              | 29             | 8.0/3.6-4.0         | 24       |
|     | 1800 | 115/208-230         | 56C   | XS13CA2JCR     | \$537 | DS-3FMP         | 1.00 | 12.8              | 32             | 6.8/3.3-3.4         | 24       |
| 1/2 | 3600 | 115/208-230         | 56C   | XS12CA1JCR     | \$681 | DS-3FMP         | 1.00 | 13.3              | 29             | 8.8/4.1-4.4         | 24       |
|     | 1800 | 115/208-230         | 56C   | XS12CA2JCR     | \$563 | DS-3FMP         | 1.00 | 13.8              | 32             | 9.8/4.9-4.9         | 24       |
| 3/4 | 3600 | 115/208-230         | 56C   | XS34CA1JCR     | \$728 | DS-3FMP         | 1.00 | 13.3              | 32             | 10.4/5.3-5.2        | 24       |
|     | 1800 | 115/208-230         | 56C   | XS34CA2JCR     | \$630 | DS-3FMP         | 1.00 | 14.3              | 32             | 12.6/6.3-6.3        | 24       |
| 1   | 3600 | 115/208-230         | 56C   | XS1CA1JCR      | \$784 | DS-3FMP         | 1.00 | 14.3              | 42             | 12.0/6.3-6.0        | 24       |
|     | 1800 | 115/208-230         | 56C   | XS1CA2JCR      | \$675 | DS-3FMP         | 1.00 | 14.8              | 44             | 14.0/6.9-7.0        | 24       |

Note 24 Automatic Reset Thermal Protector Overload  
Note 28 TENV Enclosure  
Note 78 Class B Insulation

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# Painted Washdown Three Phase, Totally Enclosed



The Slicker™

## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- BISSC® Certified, Smooth Design For Easy Cleaning
- USDA® Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

## C-Face Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 1/2   | 3600 | 208-230/460 | 56C   | WD12S1AC       | \$521   | DS-3WD          | 1.15 | 11.8              | 32             | 75.5           | 1.8-1.6/0.8    | 28,LA     |
|       | 1800 | 208-230/460 | 56C   | WD12S2AC       | \$600   | DS-3WD          | 1.15 | 11.3              | 26             | 82.5           | 1.9-1.8 / 0.9  | 28,LA     |
|       | 1200 | 208-230/460 | 56C   | WD12S3AC       | \$768   | DS-3WD          | 1.15 | 11.3              | 32             | 82.5           | 2.2-2.2/1.1    | 28,LA     |
| 3/4   | 3600 | 208-230/460 | 56C   | WD34S1AC       | \$588   | DS-3WD          | 1.15 | 11.8              | 32             | 75.5           | 2.4-2.2 / 1.1  | 28,LA     |
|       | 1800 | 208-230/460 | 56C   | WD34S2AC       | \$695   | DS-3WD          | 1.15 | 12.3              | 26             | 82.1           | 2.6-2.4/1.2    | 28,LA     |
|       | 1200 | 208-230/460 | 56C   | WD34S3AC       | \$938   | DS-3WD          | 1.00 | 12.3              | 22             | 82.0           | 3.2/1.6        | 28,LA     |
| 1     | 3600 | 208-230/460 | 56C   | WD1E1AC        | \$695   | DS-3WD          | 1.15 | 12.3              | 32             | 77.0           | 3.4-3.2 / 1.6  | 28,NNP,LA |
|       | 1800 | 208-230/460 | 143TC | WD1P2A14C      | \$926   | DS-3WD          | 1.15 | 12.8              | 26             | 85.5           | 3.4-3.3/1.8    |           |
|       | 1800 | 208-230/460 | 143TC | WD1S2A14C      | \$781   | DS-3WD          | 1.15 | 12.8              | 26             | 77.4           | 3.4-3.3/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 56C   | WD1P2AC        | \$870   | DS-3WD          | 1.15 | 12.8              | 26             | 85.5           | 3.4-3.3/1.8    |           |
|       | 1200 | 208-230/460 | 56C   | WD1S3AC        | \$928   | DS-3WD          | 1.15 | 12.8              | 32             | 82.5           | 3.8-3.8/1.8    | 28,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 56C   | WD32S1AC       | \$761   | DS-3WD          | 1.15 | 12.8              | 32             | 84.0           | 4.3-4.1/2.1    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 145TC | WD32E2A14C     | \$815   | DS-3WD          | 1.00 | 14.3              | 26             | 86.5           | 4.6-4.4/2.2    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 56HC  | WD32S2AHC      | \$753   | DS-3WD          | 1.00 | 14.3              | 26             | 86.5           | 4.6-4.4/2.2    | 28,NNP,LA |
|       | 1200 | 208-230/460 | 56HC  | WD32S3AC       | \$964   | DS-3WD          | 1.00 | 14.3              | 22             | 84.0           | 6.0-6.0/3.0    | 28,NNP,LA |
| 2     | 3600 | 208-230/460 | 56HC  | WD2P1AHC       | \$970   | DS-3WD          | 1.15 | 13.9              | 42             | 85.5           | 6.0-5.6/2.8    |           |
|       | 3600 | 208-230/440 | 56HC  | WD2S1AHC       | \$843   | DS-3WD          | 1.15 | 13.3              | 32             | 80.0           | 6.0-5.4 / 2.7  | ,NNP,LA   |
|       | 3600 | 208-230/460 | 145TC | WD2P1A14C      | \$780   | DS-3WD          | 1.15 | 13.9              | 35             | 85.5           | 5.4-4.9/2.5    |           |
|       | 1800 | 208-230/460 | 56HC  | WD2P2AHC       | \$991   | DS-3WD          | 1.00 | 14.9              | 46             | 86.5           | 6.2-6.0/3.0    |           |
|       | 1800 | 208-230/460 | 145TC | WD2P2A14C      | \$1,206 | DS-3WD          | 1.00 | 14.9              | 48             | 86.5           | 6.2-6.0/3.0    |           |
|       | 1200 | 208-230/460 | 184TC | WD2P3DC        | \$1,950 | DS-3WD          | 1.15 | 16.8              | 80             | 88.5           | 6.4-6.2/3.1    |           |
| 3     | 3600 | 208-230/460 | 145TC | WD3P1A14C      | \$1,229 | DS-3WD          | 1.15 | 14.4              | 76             | 86.5           | 8.1-7.2/3.6    | 14        |
|       | 3600 | 208-230/460 | 182TC | WD3P1DC        | \$1,477 | DS-3WD          | 1.15 | 18.8              | 73             | 88.5           | 8.1-7.4/3.7    |           |
|       | 1800 | 208-230/460 | 182TC | WD3P2DC        | \$1,477 | DS-3WD          | 1.15 | 16.8              | 58             | 89.5           | 8.2-7.6/3.8    | 03        |
|       | 1200 | 208-230/460 | 213TC | WD3P3DC        | \$2,250 | DS-3WD          | 1.15 | 19.4              | 117            | 90.2           | 9-8.3/4.2      |           |
| 5     | 3600 | 208-230/460 | 184TC | WD5P1DC        | \$1,674 | DS-3WD          | 1.15 | 18.8              | 85             | 89.5           | 13.3-11.8/5.9  |           |
|       | 1800 | 208-230/460 | 184TC | WD5P2DC        | \$1,581 | DS-3WD          | 1.15 | 16.8              | 87             | 89.5           | 13.5-12.5/6.2  | 03        |
|       | 1200 | 208-230/460 | 215TC | WD5P3DC        | \$2,346 | DS-3WD          | 1.15 | 20.4              | 128            | 89.5           | 15-14.1/7      |           |
| 7 1/2 | 3600 | 208-230/460 | 184TC | WD7P1AFC       | \$2,041 | DS-3WD          | 1.15 | 18.8              | 103            | 90.2           | 19.4-17.3/8.7  | 14        |
|       | 3600 | 208-230/460 | 213TC | WD7P1DC        | \$2,041 | DS-3WD          | 1.15 | 21.4              | 137            | 91.0           | 19.7-17.4/8.7  |           |
|       | 1800 | 208-230/460 | 213TC | WD7P2DC        | \$1,961 | DS-3WD          | 1.15 | 19.4              | 140            | 91.7           | 20-18.2/9.1    | 03        |
| 10    | 3600 | 208-230/460 | 215TC | WD10P1DC       | \$2,283 | DS-3WD          | 1.15 | 21.4              | 145            | 91.0           | 26.1-23.1/11.6 |           |
|       | 1800 | 208-230/460 | 215TC | WD10P2DC       | \$2,038 | DS-3WD          | 1.15 | 20.4              | 128            | 91.7           | 26.5-23.9/11.9 | 03        |
| 15    | 3600 | 208-230/460 | 215TC | WD15P1DFC      | \$3,302 | DS-3WD          | 1.15 | 21.4              | 154            | 93.0           | 38-35/17.4     | 14        |

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA® Design A

Note 28 TENV Enclosure

Note LA

Note NNP

Limited Availability

Non-NEMA® Premium Rating

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# Painted Washdown Three Phase, Totally Enclosed



The Slicker™

## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- BISSC®† Certified, Smooth Design For Easy Cleaning
- USDA®† Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

## C-Face Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes       |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------------|
| 1/3   | 1800 | 208-230/460 | 56C   | WD13S2ACR      | \$540   | DS-3WD          | 1.35 | 11.3              | 26             | 80.0           | 1.9-1.8/0.9    | 28, LA      |
| 1/2   | 1800 | 208-230/460 | 56C   | WD12S2ACR      | \$596   | DS-3WD          | 1.15 | 11.3              | 26             | -              | 1.9-1.8/0.9    | 28, LA      |
| 3/4   | 1800 | 208-230/460 | 56C   | WD34S2ACR      | \$689   | DS-3WD          | 1.15 | 12.3              | 26             | 82.5           | 2.6-2.4/1.2    | 28, LA      |
| 1     | 3600 | 208-230/460 | 56C   | WD1S1ACR       | \$590   | DS-3WD          | 1.15 | 12.3              | 32             | 77.0           | 3.4-3.2 / 1.6  | 28, NNP, LA |
|       | 1800 | 208-230/460 | 143TC | WD1E2A14CR     | \$722   | DS-3WD          | 1.15 | 12.8              | 26             | 82.5           | 3.4-3.3/1.7    | 28, NNP, LA |
|       | 1800 | 208-230/460 | 143TC | WD1P2A14CR     | \$920   | DS-3WD          | 1.15 | 12.8              | 26             | 85.5           | 3.4-3.3/1.8    |             |
|       | 1800 | 208-230/460 | 56C   | WD1E2ACR       | \$722   | DS-3WD          | 1.15 | 12.8              | 26             | 82.5           | 3.4-3.3/1.7    | 28, NNP, LA |
|       | 1800 | 208-230/460 | 56C   | WD1P2ACR       | \$864   | DS-3WD          | 1.15 | 12.3              | 26             | 85.5           | 3.4-3.3/1.8    | 28          |
| 1 1/2 | 3600 | 208-230/460 | 56C   | WD32E1ACR      | \$770   | DS-3WD          | 1.15 | 12.8              | 32             | 84.0           | 4.3-4.1/2.1    | 28, NNP, LA |
|       | 1800 | 208-230/460 | 56C   | WD32S2ACR      | \$751   | DS-3WD          | 1.00 | 14.4              | 26             | 86.5           | 4.6-4.4/2.2    | 28, NNP, LA |
|       | 1800 | 230/460     | 145TC | WD32S2A14CR    | \$751   | DS-3WD          | 1.00 | 14.4              | 26             | 86.5           | 4.4/2.2        | 28, NNP, LA |
| 2     | 3600 | 208-230/460 | 56C   | WD2P1ACR       | \$964   | DS-3WD          | 1.15 | 13.8              | 38             | 85.5           | 5.1-5.1/2.6    |             |
|       | 3600 | 208-230/460 | 56C   | WD2S1ACR       | \$896   | DS-3WD          | 1.15 | 13.4              | 32             | 80.0           | 6.0-5.4/2.7    | , NNP, LA   |
|       | 1800 | 208-230/460 | 145TC | WD2E2A14CR     | \$857   | DS-3WD          | 1.00 | 14.4              | 26             | 84.0           | 6-5.9/3        | , NNP, LA   |
|       | 1800 | 208-230/460 | 145TC | WD2P2A14CR     | \$1,287 | DS-3WD          | 1.00 | 14.9              | 26             | 86.5           | 6.2-6.0/3.0    |             |
|       | 1800 | 208-230/460 | 56C   | WD2P2ACR       | \$985   | DS-3WD          | 1.00 | 14.9              | 46             | 86.5           | 6.2-6.0/3.0    |             |
|       | 1800 | 208-230/460 | 56C   | WD2S2ACR       | \$857   | DS-3WD          | 1.00 | 14.4              | 26             | -              | 6.2/3.1        | NNP, LA     |
| 3     | 3600 | 208-230/460 | 56C   | WD3P1ACR       | \$1,185 | DS-3WD          | 1.15 | 14.9              | 32             | 86.5           | 7.9-6.7/3.4    |             |
|       | 3600 | 208-230/460 | 56C   | WD3S1ACR       | \$1,030 | DS-3WD          | 1.15 | 14.4              | 32             | 85.5           | 8.8-7.3/3.6    | NNP, LA     |
|       | 1800 | 208-230/460 | 145TC | WD3E2A14CR     | \$1,055 | DS-3WD          | 1.00 | 14.9              | 38             | 87.5           | 9.5-9.2/4.6    | 28, NNP, LA |
|       | 1800 | 208-230/460 | 182TC | WD3E2DCR       | \$1,110 | DS-3WD          | 1.15 | 16.8              | 78             | 87.5           | 8.5-7.9/3.9    | NNP, LA     |
|       | 1800 | 208-230/460 | 182TC | WD3P2DCR       | \$1,477 | DS-3WD          | 1.15 | 16.8              | 58             | 89.5           | 8.2-7.6/3.8    | 03          |
| 5     | 1800 | 208-230/460 | 184TC | WD5E2DCR       | \$1,256 | DS-3WD          | 1.15 | 16.8              | 94             | 87.5           | 14-12.6/6.3    | NNP, LA     |
|       | 1800 | 208-230/460 | 184TC | WD5P2DCR       | \$1,581 | DS-3WD          | 1.15 | 16.8              | 87             | 89.5           | 13.5-12.5/6.2  | 03          |
| 7 1/2 | 1800 | 208-230/460 | 213TC | WD7P2DCR       | \$1,961 | DS-3WD          | 1.15 | 19.4              | 117            | 91.7           | 20-18.2/9.1    | 03          |
| 10    | 1800 | 208-230/460 | 215TC | WD10P2DCR      | \$2,038 | DS-3WD          | 1.15 | 20.4              | 128            | 91.7           | 26.5-23.9/11.9 | 03          |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate  
 Note 28 TENV Enclosure  
 Note LA Limited Availability  
 Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# Paint Free Washdown Three Phase, Totally Enclosed, C-Face



## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- INVERTER GRADE<sup>®†</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- BISSC<sup>®†</sup> Certified
- VBX<sup>®†</sup> Bearing Isolators By Inpro/Seal On Drive End (Both Ends On 180-210 Frame)
- 303 Stainless Steel Shaft
- Multiple Stainless Steel T-type drains
- Double Contact Sealed Ball Bearings
- Laser-Etched Oversized Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- RTV-Sealed Lead Exit
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Stainless Steel Frame
- Easy to Read Connection Leads
- Rust Inhibitor on Rotor
- 40°C Ambient, NEMA<sup>®†</sup> Design B
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

## Footed

| HP    | RPM  | Voltage               | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes     |
|-------|------|-----------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-----------|
| 1/2   | 1800 | 208-230/460           | 56HC  | WDP12S2AHC     | \$774   | DS-3WD          | 1.15 | 12.2              | 36             | 2.0-1.9/0.9    | 28        |
| 3/4   | 1800 | 208-230/460           | 56HC  | WDP34S2AHC     | \$895   | DS-3WD          | 1.15 | 12.2              | 31             | 2.8-2.7/1.3    | 28        |
| 1     | 1800 | 208-230/460           | 145TC | WDP1S2AC       | \$926   | DS-3WD          | 1.15 | 13.8              | 44             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460           | 56HC  | WDP1S2AHC      | \$926   | DS-3WD          | 1.15 | 13.7              | 44             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56HC  | WDP1P2AHC      | \$1,225 | DS-3WD          | 1.15 | 14.3              | 31             | 3.5-3.4/1.7    |           |
| 1 1/2 | 1800 | 208-230/460           | 145TC | WDP32S2AC      | \$967   | DS-3WD          | 1.00 | 13.8              | 52             | 4.9-4.8/2.4    | 28,NNP,LA |
| 2     | 1800 | 208-230/460           | 145TC | WDP2P2AC       | \$1,421 | DS-3WD          | 1.00 | 14.9              | 51             | 6.2-6.0/3.0    |           |
|       | 1800 | 208-230/460           | 56HC  | WDP2S2AHC      | \$1,194 | DS-3WD          | 1.15 | 14.0              | 52             | 7.0-7.0/3.5    | NNP,LA    |
| 3     | 1800 | 208-230/460           | 182TC | WDP3P2AC       | \$1,932 | DS-3WD          | 1.15 | 18.5              | 55             | 8.3-7.6/3.8    |           |
| 5     | 1800 | 208-230/460           | 184TC | WDP5P2AC       | \$2,132 | DS-3WD          | 1.15 | 18.5              | 76             | 13.6-12.3/6.1  |           |
| 7 1/2 | 1800 | 208-230/460           | 213TC | WDP7P2AC       | \$2,568 | DS-3WD          | 1.15 | 21.2              | 117            | 19.9-18.1/9    |           |
| 10    | 1800 | 208-230/460           | 215TC | WDP10P2AC      | \$2,737 | DS-3WD          | 1.15 | 21.2              | 125            | 26.5-23.8/11.9 |           |

## Footless

| HP    | RPM  | Voltage               | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes     |
|-------|------|-----------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-----------|
| 1/2   | 1800 | 208-230/460           | 56C   | WDP12S2ACR     | \$766   | DS-3WD          | 1.15 | 12.2              | 31             | 2.0-1.9/0.9    | 28        |
|       | 1200 | 208-230/460           | 56C   | WDP12S3DCR     | \$784   | DS-3WD          | 1.15 | 12.2              | 32             | 2.2-2.2/1.1    | 28        |
| 3/4   | 1800 | 208-230/460           | 56C   | WDP34S2ACR     | \$887   | DS-3WD          | 1.15 | 12.2              | 51             | 2.8-2.7/1.3    | 28        |
| 1     | 1800 | 208-230/460           | 145TC | WDP1S2ACR      | \$918   | DS-3WD          | 1.15 | 13.8              | 43             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP1S2AFCR     | \$918   | DS-3WD          | 1.15 | 13.7              | 38             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP1P2AFCR     | \$1,215 | DS-3WD          | 1.15 | 14.3              | 30             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1200 | 208-230/460           | 56C   | WDP1S3DCR      | \$964   | DS-3WD          | 1.15 | 13.8              | 32             | 4.7-4.8/2.4    | 28,NNP,LA |
| 1 1/2 | 1800 | 208-230/460           | 145TC | WDP32S2ACR     | \$960   | DS-3WD          | 1.00 | 13.8              | 51             | 4.9-4.8/2.4    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP32S2AFCR    | \$960   | DS-3WD          | 1.00 | 11.9              | 10             | 4.9-4.8/2.4    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP32P2DFCR    | \$1,215 | DS-3WD          | 1.00 | 14.3              | 50             | 4.9-4.8/2.4    | 28,NNP,LA |
| 2     | 1800 | 208-230/460           | 145TC | WDP2E2ACR      | \$1,096 | DS-3WD          | 1.15 | 14.9              | 51             | 7.0-7.0/ 3.5   | NNP,LA    |
|       | 1800 | 208-230/460           | 145TC | WDP2P2ACR      | \$1,490 | DS-3WD          | 1.00 | 14.5              | 51             | 6.2-6.0/3.0    | 28,NNP,LA |
|       | 1800 | 208-230/460           | 145TC | WDP2S2ACR      | \$1,096 | DS-3WD          | 1.15 | 14.1              | 51             | 7.0-7.0/3.5    | 28,NNP,LA |
|       | 1800 | 208-230/460           | 56C   | WDP2S2AFCR     | \$1,096 | DS-3WD          | 1.15 | 14.0              | 51             | 7.0-7.0/3.5    | 28,NNP,LA |

Note 28 TENV Enclosure  
 Note LA Limited Availability  
 Note NNP Non-NEMA<sup>®†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.





# All Stainless Steel Washdown Three Phase Totally Enclosed, C-Face Premium



The Silver Bullet

## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- All Stainless Steel External Construction
- 40°C Ambient, NEMA® Design B
- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- 303 Stainless Steel Shaft
- Multiple Stainless Steel T-type Drains
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Rust Inhibitor on Rotor
- BISSC®† Certified
- VBX®† Bearing Isolators by Inpro/Seal On Drive End
- Double Sealed Ball Bearings
- Laser-Etched Oversized Nameplate
- RTV-Sealed Lead Exit Holes
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Easy to Read Connection Leads

## Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/2   | 3600 | 208-230/460 | 56HC  | WDS12S1AHC     | \$1,341 | DS-3WD          | 1.15 | 11.9              | 34             | 77.0           | 1.6-1.5/0.8    | 28     |
|       | 1800 | 208-230/460 | 56HC  | WDS12S2AHC     | \$1,405 | DS-3WD          | 1.15 | 11.9              | 34             | 78.5           | 1.8-1.9/1      | 28     |
| 3/4   | 3600 | 208-230/460 | 56HC  | WDS34S1AHC     | \$1,345 | DS-3WD          | 1.15 | 11.9              | 39             | 81.5           | 2.2-2.1/1      | 28     |
|       | 1800 | 208-230/460 | 56HC  | WDS34S2AHC     | \$1,493 | DS-3WD          | 1.15 | 11.9              | 38             | 82.5           | 2.4-2.4/1.2    | 28     |
| 1     | 3600 | 208-230/460 | 56    | WDS1P1AHC      | \$1,482 | DS-3WD          | 1.15 | 11.9              | 35             | 84.0           | 2.8-2.6/1.3    | 28     |
|       | 3600 | 208-230/460 | 56HC  | WDS1S1AHC      | \$1,478 | DS-3WD          | 1.15 | 11.9              | 42             | 84.0           | 2.8-2.6/1.3    | 28, LA |
|       | 1800 | 208-230/460 | 143TC | WDS1E2AC       | \$1,533 | DS-3WD          | 1.15 | 11.9              | 39             | 85.5           | 3.1-2.9/1.4    | 28, LA |
|       | 1800 | 208-230/460 | 143TC | WDS1P2AC       | \$1,529 | DS-3WD          | 1.15 | 11.9              | 36             | 85.5           | 3.1-2.9/1.4    | 28     |
|       | 1800 | 208-230/460 | 56    | WDS1P2AHC      | \$1,529 | DS-3WD          | 1.15 | 11.9              | 35             | 85.5           | 3.1-2.9/1.4    | 28     |
|       | 1800 | 208-230/460 | 56HC  | WDS1S2AHC      | \$1,533 | DS-3WD          | 1.15 | 11.9              | 39             | 85.5           | 3.1-2.9/1.4    | 28, LA |
| 1 1/2 | 3600 | 208-230/460 | 145TC | WDS32P1AC      | \$1,588 | DS-3WD          | 1.15 | 13.2              | 42             | 84.0           | 4.2-3.8/1.9    |        |
|       | 3600 | 208-230/460 | 56    | WDS32P1AFHC    | \$1,588 | DS-3WD          | 1.15 | 11.9              | 35             | 86.5           | 4-3.6/1.8      | 28     |
|       | 3600 | 208-230/460 | 56HC  | WDS32S1AFHC    | \$1,584 | DS-3WD          | 1.15 | 11.9              | 53             | 86.5           | 4-3.6/1.8      | 28, LA |
|       | 1800 | 208-230/460 | 145TC | WDS32P2AC      | \$1,538 | DS-3WD          | 1.15 | 13.2              | 46             | 86.5           | 4.3-4.1/2.1    |        |
|       | 1800 | 208-230/460 | 56    | WDS32P2AFHC    | \$1,538 | DS-3WD          | 1.15 | 13.2              | 35             | 86.5           | 4.4-4.1/2.1    | 28     |
|       | 1800 | 208-230/460 | 56HC  | WDS32S2AFHC    | \$1,534 | DS-3WD          | 1.15 | 11.9              | 57             | 86.5           | 4.4-4.1/2.1    | 28, LA |
| 2     | 3600 | 208-230/460 | 145TC | WDS2P1AC       | \$1,910 | DS-3WD          | 1.15 | 13.2              | 50             | 86.5           | 5.3-4.9/2.4    |        |
|       | 3600 | 208-230/460 | 56HC  | WDS2P1AFHC     | \$1,727 | DS-3WD          | 1.15 | 13.2              | 50             | 86.5           | 5.3-4.9/2.4    |        |
|       | 1800 | 208-230/460 | 145TC | WDS2P2AC       | \$1,909 | DS-3WD          | 1.15 | 13.2              | 46             | 86.5           | 5.8-5.4/2.7    |        |
|       | 1800 | 208-230/460 | 56HC  | WDS2P2AFHC     | \$1,813 | DS-3WD          | 1.15 | 13.2              | 61             | 86.5           | 5.8-5.4/2.7    |        |
| 3     | 3600 | 208-230/460 | 145TC | WDS3P1A14C     | \$2,294 | DS-3WD          | 1.15 | 13.2              | 55             | 87.5           | 8.1-7.2/3.6    | 14     |
|       | 3600 | 208-230/460 | 182TC | WDS3P1AC       | \$2,473 | DS-3WD          | 1.15 | 13.2              | 73             | 88.5           | 8.1-7.4/3.7    |        |
|       | 1800 | 208-230/460 | 182TC | WDS3P2AC       | \$2,270 | DS-3WD          | 1.15 | 18.5              | 58             | 89.5           | 8.3-7.6/3.8    |        |
| 5     | 3600 | 208-230/460 | 184TC | WDS5P1AC       | \$2,607 | DS-3WD          | 1.15 | 18.5              | 85             | 89.5           | 13.3-11.8/5.9  |        |
|       | 1800 | 208-230/460 | 184TC | WDS5P2AC       | \$2,505 | DS-3WD          | 1.15 | 18.5              | 75             | 89.5           | 13.6-12.3/6.1  |        |
| 7 1/2 | 3600 | 208-230/460 | 213TC | WDS7P1AC       | \$3,054 | DS-3WD          | 1.15 | 21.2              | 137            | 91.0           | 19.7-17.4/8.7  |        |
|       | 1800 | 208-230/460 | 213TC | WDS7P2AC       | \$3,116 | DS-3WD          | 1.15 | 21.2              | 117            | 91.7           | 19.9-18.1/9    |        |
| 10    | 3600 | 208-230/460 | 215TC | WDS10P1AC      | \$3,433 | DS-3WD          | 1.15 | 21.2              | 145            | 91.0           | 26.1-23.1/11.6 |        |
|       | 1800 | 208-230/460 | 215TC | WDS10P2AC      | \$3,426 | DS-3WD          | 1.15 | 21.2              | 128            | 91.7           | 26.5-23.8/11.9 |        |

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/2   | 3600 | 208-230/460 | 56C   | WDS12S1ACR     | \$1,314 | DS-3WD          | 1.15 | 11.9              | 34             | 77.0           | 1.6-1.5/0.8    | 28     |
|       | 1800 | 208-230/460 | 56C   | WDS12S2ACR     | \$1,377 | DS-3WD          | 1.15 | 11.9              | 37             | 78.5           | 1.8-1.9/1      | 28     |
| 3/4   | 3600 | 208-230/460 | 56C   | WDS34S1ACR     | \$1,318 | DS-3WD          | 1.15 | 11.9              | 39             | 81.5           | 2.2-2.1/1      | 28     |
|       | 1800 | 208-230/460 | 56C   | WDS34S2ACR     | \$1,463 | DS-3WD          | 1.15 | 11.9              | 41             | 82.5           | 2.4-2.4/1.2    | 28     |
| 1     | 3600 | 208-230/460 | 56C   | WDS1P1ACR      | \$1,453 | DS-3WD          | 1.15 | 11.9              | 35             | 84.0           | 2.8-2.6/1.3    | 28     |
|       | 3600 | 208-230/460 | 56C   | WDS1S1ACR      | \$1,449 | DS-3WD          | 1.15 | 11.9              | 42             | 84.0           | 2.8-2.6/1.3    | 28, LA |
|       | 1800 | 208-230/460 | 143TC | WDS1P2ACR      | \$1,496 | DS-3WD          | 1.15 | 11.9              | 36             | 85.5           | 3.1-2.9/1.4    | 28     |
|       | 1800 | 208-230/460 | 143TC | WDS1S2ACR      | \$1,392 | DS-3WD          | 1.15 | 11.9              | 42             | 85.5           | 3.1-2.9/1.4    | 28, LA |
|       | 1800 | 208-230/460 | 56C   | WDS1P2AFCR     | \$1,496 | DS-3WD          | 1.15 | 11.9              | 35             | 85.5           | 3.1-2.9/1.4    | 28     |
|       | 1800 | 208-230/460 | 56C   | WDS1S2AFCR     | \$1,392 | DS-3WD          | 1.15 | 11.9              | 42             | 85.5           | 3.1-2.9/1.4    | 28, LA |
| 1 1/2 | 3600 | 208-230/460 | 145TC | WDS32P1ACR     | \$1,564 | DS-3WD          | 1.15 | 13.2              | 42             | 84.0           | 4.2-3.8/1.9    |        |
|       | 3600 | 208-230/460 | 56C   | WDS32P1AFCR    | \$1,564 | DS-3WD          | 1.15 | 11.9              | 35             | 86.5           | 4-3.6/1.8      | 28     |
|       | 3600 | 208-230/460 | 56C   | WDS32S1AFCR    | \$1,560 | DS-3WD          | 1.15 | 11.9              | 53             | 86.5           | 4-3.6/1.8      | 28, LA |
|       | 1800 | 208-230/460 | 145TC | WDS32P2ACR     | \$1,506 | DS-3WD          | 1.15 | 13.2              | 47             | 86.5           | 4.4-4.1/2.1    |        |
| 2     | 3600 | 208-230/460 | 56C   | WDS32P2AFCR    | \$1,506 | DS-3WD          | 1.15 | 13.2              | 35             | 86.5           | 4.3-4.1/2.1    |        |
|       | 3600 | 208-230/460 | 145TC | WDS2P1ACR      | \$1,891 | DS-3WD          | 1.15 | 13.2              | 50             | 86.5           | 5.3-4.9/2.4    |        |
|       | 1800 | 208-230/460 | 145TC | WDS2P2ACR      | \$1,890 | DS-3WD          | 1.15 | 13.2              | 47             | 86.5           | 5.8-5.4/2.7    |        |
|       | 1800 | 208-230/460 | 56C   | WDS2P2AFCR     | \$1,890 | DS-3WD          | 1.15 | 13.2              | 35             | 86.5           | 5.8-5.4/2.7    |        |
| 3     | 3600 | 208-230/460 | 145TC | WDS3P1ACR      | \$2,448 | DS-3WD          | 1.15 | 13.2              | 55             | 87.5           | 8.1-7.2/3.6    | 14     |
|       | 1800 | 208-230/460 | 182TC | WDS3P2ACR      | \$2,247 | DS-3WD          | 1.15 | 18.5              | 58             | 89.5           | 8.3-7.6/3.8    |        |
| 5     | 3600 | 208-230/460 | 184TC | WDS5P1ACR      | \$2,581 | DS-3WD          | 1.15 | 18.5              | 82             | 89.5           | 13.3-11.8/5.9  |        |
|       | 1800 | 208-230/460 | 184TC | WDS5P2ACR      | \$2,480 | DS-3WD          | 1.15 | 18.5              | 75             | 89.5           | 13.6-12.3/6.1  |        |

Note 14  
Note 28

NEMA Design A  
TENV Enclosure

Limited Availability Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



## Painted Washdown Single Phase, Totally Enclosed, C-Face



The Slicker™

### APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

### FEATURES:

- Class F Insulation
- BISSC®† Certified, Smooth Design For Easy Cleaning
- USDA®† Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- F1 Assembly Position
- Double Contact Sealed Ball Bearings
- Reversible Rotation
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Stationary Grease Seal On Both Ends
- 303 Stainless Steel Shaft
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-type Drains
- Automatic Reset Thermal Overload Protector on Yoke Mount Fan Motors

### Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|---------|
| 1/2   | 3600 | 115/208-230 | 56C   | WD12C1JC       | \$523   | DS-3WD          | 1.15 | 11.8              | 32             | 7.3/3.9-3.7    | 28      |
|       | 1800 | 115/208-230 | 56C   | WD12C2JC       | \$537   | DS-3WD          | 1.15 | 12.8              | 26             | 9.5/4.6-4.8    | 25      |
| 3/4   | 3600 | 115/208-230 | 56C   | WD34C1JC       | \$538   | DS-3WD          | 1.15 | 12.3              | 30             | 9.7/5.3-4.9    | 28      |
|       | 1800 | 115/208-230 | 56C   | WD34C2JC       | \$611   | DS-3WD          | 1.15 | 13.3              | 32             | 12.8/6.4-6.5   |         |
| 1     | 3600 | 115/208-230 | 56C   | WD1C1JC        | \$583   | DS-3WD          | 1.15 | 13.3              | 32             | 13.6/6.9-6.8   |         |
|       | 1800 | 115/208-230 | 56HC  | WD1C2JHC       | \$702   | DS-3WD          | 1.15 | 13.8              | 28             | 15.4/7.8-7.6   |         |
| 1 1/2 | 3600 | 115/208-230 | 56HC  | WD32C1JHC      | \$768   | DS-3WD          | 1.15 | 13.8              | 28             | 14.6/8.1-7.4   | CSCR,25 |
|       | 1800 | 115/208-230 | 56HC  | WD32C2JHC      | \$896   | DS-3WD          | 1.15 | 15.3              | 32             | 14.4/8.0-7.2   | CSCR    |
| 2     | 1800 | 115/230     | 56HC  | WD2C2PHC       | \$1,052 | DS-3WD          | 1.15 | 15.3              | 48             | 19.6/9.8       | CSCR,25 |

### Footless

| HP  | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|---------|
| 1/2 | 3600 | 115/208-230 | 56C   | WD12C1JCR      | \$576   | DS-3WD          | 1.15 | 11.8              | 32             | 7.3/3.9-3.7    | 28      |
|     | 1800 | 115/208-230 | 56C   | WD12C2JCR      | \$663   | DS-3WD          | 1.15 | 12.8              | 32             | 8.8/4.3-4.4    | 28      |
| 3/4 | 1800 | 115/208-230 | 56C   | WD34C2JCR      | \$748   | DS-3WD          | 1.15 | 13.8              | 41             | 7.8/4.3-3.9    | CSCR,28 |
| 1   | 3600 | 115/208-230 | 56C   | WD1C1JCR       | \$672   | DS-3WD          | 1.15 | 13.8              | 34             | 9.9/5.8-5.3    | CSCR,28 |
|     | 1800 | 115/208-230 | 56C   | WD1C2JCR       | \$848   | DS-3WD          | 1.00 | 14.3              | 24             | 10.3/5.5-5.2   | CSCR    |
| 2   | 1800 | 115/230     | 56C   | WD2C2JCR       | \$1,059 | DS-3WD          | 1.15 | 15.3              | 48             | 19.6/9.8       | CSCR    |

### Permanent Split Capacitor, Yoke Mount, Non-Oscillating Totally Enclosed Air Over (TEAO) Fan Motors

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/4 | 1800 | 115/230 | 56YZ  | WD14AA2PZ7     | \$426 | DS-3WD          | 1.00 | 10.9              | 19             | 3.5/1.7        | 24    |
| 1/3 | 1800 | 115/230 | 56YZ  | WD13AA2PZ7     | \$448 | DS-3WD          | 1.00 | 10.9              | 16             | 4.9/2.5        | 24    |
| 1/2 | 1800 | 115/230 | 56YZ  | WD12AA2PZ7     | \$481 | DS-3WD          | 1.00 | 11.9              | 32             | 5.9/2.9        | 24    |

Note 24 Automatic Reset Thermal Protector Overload  
 Note 25 Non-protected  
 Note 28 TENV Enclosure  
 Note CSCR Capacitor Start /Capacitor Run

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Open Dripproof (ODP) NEMA® Premium Efficient, C-Face



**NEMA**  
Premium

## APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

## FEATURES:

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Service Factor On 60 Hertz Sine Wave Power
- Rolled Steel Frame 56-320, Cast Iron Frame 360-440
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- "CE" Mark On Nameplate (140 Frame & Larger)
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- 40°C Ambient, NEMA® Design B Performance On 60 Hz Sine Wave Power

- Conversion Kits: Drip Cover Kits (140-320 Frame)
- Full HP @ 50 Hz
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings 48-400
- Bearing Cap On 440 Frame
- Suitable For Wye-Delta Start 250 Frame & Larger
- F1 Assembly Position
- Lifting Provisions 210 Frame & Up

## Footed

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|---------------|----------------|----------------|-----------|
| 1/3   | 1800 | 208-230/460 | 56HC   | D13P2AHC       | \$302   | DS-3E           | 1.35 | 11.4              | 26            | 73.4           | 1.4-1.4/0.7    | 26        |
| 1     | 1800 | 208-230/460 | 143TC  | D1P2DC         | \$474   | DS-3E           | 1.15 | 13.3              | 30            | 85.5           | 3.2-3.1/1.5    |           |
|       | 1800 | 208-230/460 | 56HC   | D1P2AHC        | \$433   | DS-3E           | 1.15 | 12.4              | 26            | 83.5           | 3.2-3.0/1.5    | 26        |
| 1 1/2 | 3600 | 208-230/460 | 143TC  | D32P1DC        | \$505   | DS-3E           | 1.15 | 13.3              | 30            | 84.0           | 4.2-3.8/1.9    |           |
|       | 3600 | 208-230/460 | 56HC   | D32S1AHC       | \$480   | DS-3E           | 1.15 | 11.9              | 32            | 82.0           | 4.7-4.4/ 2.2   | 26,NNP,LA |
|       | 3600 | 208-230/460 | 56C    | D32P1AHC       | \$500   | DS-3E           | 1.25 | 11.9              | 32            | -              | 4.7-4.4/ 2.2   |           |
|       | 1800 | 208-230/460 | 145TC  | D32P2DC        | \$499   | DS-3E           | 1.15 | 13.3              | 35            | 86.5           | 4.4-4.2/2.1    |           |
| 2     | 3600 | 208-230/460 | 145TC  | D2P1DC         | \$551   | DS-3E           | 1.15 | 12.8              | 35            | 85.5           | 5.5-5/2.5      |           |
|       | 3600 | 208-230/460 | 56HC   | D2P1AHC        | \$494   | DS-3E           | 1.15 | 11.9              | 32            | 85.5           | 6.0-5.4/2.7    | 26        |
|       | 3600 | 208-230/460 | 56HC   | D2S1AHC        | \$429   | DS-3E           | 1.15 | 11.9              | 32            | 82.5           | 6.0-5.4/2.7    | 26,NNP,LA |
|       | 1800 | 208-230/460 | 145TC  | D2P2DC         | \$548   | DS-3E           | 1.15 | 12.8              | 35            | 86.5           | 5.9-5.6/2.8    |           |
| 3     | 3600 | 208-230/460 | 145TC  | D3P1DC         | \$566   | DS-3E           | 1.15 | 13.3              | 35            | 85.5           | 8.3-7.4/3.7    |           |
|       | 1800 | 208-230/460 | 182TC  | D3P2DC         | \$582   | DS-3E           | 1.15 | 15.8              | 50            | 89.5           | 8.4-7.8/3.9    |           |
| 5     | 3600 | 208-230/460 | 182TC  | D5P1DC         | \$603   | DS-3E           | 1.15 | 15.8              | 50            | 89.5           | 13.5-12.3/6.2  |           |
|       | 1800 | 208-230/460 | 184TC  | D5P2DC         | \$627   | DS-3E           | 1.15 | 15.8              | 60            | 89.5           | 13.8-13/6.5    |           |
| 7 1/2 | 3600 | 208-230/460 | 184TC  | D7P1DC         | \$942   | DS-3E           | 1.15 | 15.8              | 60            | 88.5           | 20.3-18.1/9.1  |           |
|       | 1800 | 208-230/460 | 213TC  | D7P2DC         | \$917   | DS-3E           | 1.15 | 16.8              | 100           | 91.0           | 20.2-18.5/9.3  |           |
| 10    | 3600 | 208-230/460 | 213TC  | D10P1DC        | \$1,101 | DS-3E           | 1.15 | 16.8              | 100           | 90.2           | 27.1-24.3/12.2 |           |
|       | 1800 | 208-230/460 | 215TC  | D10P2DC        | \$1,116 | DS-3E           | 1.15 | 18.3              | 110           | 91.7           | 26.3-23.8/11.9 |           |
| 15    | 3600 | 208-230/460 | 215TC  | D15P1DC        | \$1,513 | DS-3E           | 1.15 | 18.3              | 100           | 90.2           | 40-36/18       |           |
|       | 1800 | 208-230/460 | 254TC  | D15P2DC        | \$1,526 | DS-3E           | 1.15 | 23.0              | 150           | 93.0           | 40-36/18.2     | 02.03     |
| 20    | 3600 | 208-230/460 | 254TC  | D20P1DC        | \$1,831 | DS-3E           | 1.15 | 23.0              | 150           | 91.7           | 52-46/23.1     | 02.03     |
|       | 1800 | 208-230/460 | 256TC  | D20P2DC        | \$1,957 | DS-3E           | 1.15 | 23.6              | 170           | 93.0           | 54-49/24.4     |           |
| 25    | 3600 | 208-230/460 | 256TC  | D25P1DC        | \$2,394 | DS-3E           | 1.15 | 23.6              | 160           | 91.7           | 65-57/28.7     | 02.03     |
|       | 1800 | 208-230/460 | 284TC  | D25P2DC        | \$2,446 | DS-3E           | 1.15 | 24.9              | 300           | 93.6           | 64-58/29       | 02.03     |
| 30    | 3600 | 208-230/460 | 284TSC | D30P1DSC       | \$2,869 | DS-3E           | 1.15 | 23.5              | 300           | 92.4           | 79-68/34       | 02.03     |
|       | 1800 | 208-230/460 | 286TC  | D30P2DC        | \$2,861 | DS-3E           | 1.15 | 24.9              | 350           | 94.1           | 77-69/34       | 02.03     |
| 40    | 3600 | 208-230/460 | 286TSC | D40P1DSC       | \$3,115 | DS-3E           | 1.15 | 23.5              | 250           | 93.0           | 104-90/45      | 02.03     |
|       | 1800 | 208-230/460 | 324TC  | D40P2DC        | \$3,424 | DS-3E           | 1.15 | 27.3              | 385           | 94.1           | 102-91/46      | 02.03     |
| 50    | 3600 | 208-230/460 | 324TSC | D50P1DSC       | \$3,778 | DS-3E           | 1.15 | 25.8              | 385           | 93.0           | 130-117/59     | 02.03     |
|       | 1800 | 208-230/460 | 326TC  | D50P2DC        | \$3,921 | DS-3E           | 1.15 | 27.3              | 415           | 94.5           | 126-113/56     | 02.03     |
| 60    | 3600 | 208-230/460 | 326TSC | D60P1DSC       | \$5,004 | DS-3E           | 1.15 | 25.8              | 460           | 93.6           | 152-134/67     | 02.03     |

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|---------------|----------------|----------------|-----------|
| 1/4   | 1800 | 208-230/460 | 56C   | D14P2ACR       | \$281 | DS-3E           | 1.35 | 10.9              | 26            | 69.5           | 1.1-1.2/0.6    |           |
|       | 1800 | 208-230/460 | 56C   | D14S2ACR       | \$243 | DS-3E           | 1.35 | 10.9              | 26            | 68.0           | 1.1-1.2/0.6    | 26,NNP,LA |
| 1/3   | 1800 | 208-230/460 | 56C   | D13P2ACR       | \$299 | DS-3E           | 1.35 | 11.4              | 26            | 73.4           | 1.4-1.4/0.7    |           |
|       | 1800 | 208-230/460 | 56C   | D13S2ACR       | \$259 | DS-3E           | 1.35 | 11.4              | 26            | 75.5           | 1.4-1.4/0.7    | 26,NNP,LA |
| 1/2   | 1800 | 208-230/460 | 56C   | D12P2ACR       | \$342 | DS-3E           | 1.25 | 11.4              | 26            | 78.2           | 1.98-1.9/98    |           |
| 3/4   | 1800 | 208-230/460 | 56C   | D34P2ACR       | \$381 | DS-3E           | 1.25 | 11.9              | 26            | 81.1           | 2.8-2.7/1.4    |           |
|       | 1800 | 208-230/460 | 56C   | D34S2ACR       | \$331 | DS-3E           | 1.25 | 11.9              | 26            | -              | 2.8-2.7/1.4    | 26,NNP,LA |
|       | 1200 | 208-230/460 | 56C   | D34S3DCR       | \$499 | DS-3E           | 1.15 | 12.2              | 32            | 75.5           | 3.4-3.5/1.7    | 26,NNP,LA |
| 1     | 3600 | 208-230/460 | 56C   | D1P1ACR        | \$425 | DS-3E           | 1.25 | 11.4              | 32            | -              | 3.1-3.0/1.5    |           |
|       | 3600 | 208-230/460 | 56C   | D1S1ACR        | \$369 | DS-3E           | 1.25 | 11.4              | 32            | -              | 3.1-3.0/1.5    | 26,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 56C   | D32P1ACR       | \$502 | DS-3E           | 1.25 | 11.9              | 32            | -              | 4.7-4.4/2.2    |           |
|       | 1800 | 208-230/460 | 56C   | D32S2ACR       | \$382 | DS-3E           | 1.25 | 12.4              | 26            | 80.0           | 4.9-5.0/2.5    | 26,NNP,LA |
|       | 1800 | 208-230/460 | 56C   | D32P2ACR       | \$496 | DS-3E           | 1.25 | 12.9              | 35            | -              | 4.8-4.8/2.4    |           |
| 2     | 3600 | 208-230/460 | 56C   | D2P1ACR        | \$548 | DS-3E           | 1.15 | 11.9              | 32            | 85.5           | 6.0-5.4/2.7    |           |
|       | 1800 | 208-230/460 | 145TC | D2P2ACR        | \$545 | DS-3E           | 1.25 | 12.9              | 26            | -              | 6.1-6.2/3.1    |           |
|       | 1800 | 208-230/460 | 145TC | D32E2A14CR     | \$554 | DS-3F           | 1.15 | 12.9              | 26            | 84.0           | 5.0-4.9/2.5    | NNP,LA    |
|       | 1800 | 208-230/460 | 145TC | D2E2ACR        | \$475 | DS-3E           | 1.15 | 12.4              | 26            | 84.0           | 6.1-6.2/3.1    | 26,NNP,LA |
|       | 1800 | 208-230/460 | 56C   | D2S2ACR        | \$541 | DS-3F           | 1.15 | 12.9              | 26            | 84.0           | 6.1-6.2/3.1    | NNP,LA    |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 26 Does not include WORLD MOTOR® features  
 Note LA Limited Availability  
 Note NNP Non-NEMA® Premium Rating

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GEN. PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
STEEL EDGE™

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY™

GENERAL PURPOSE  
841 PLUS™

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

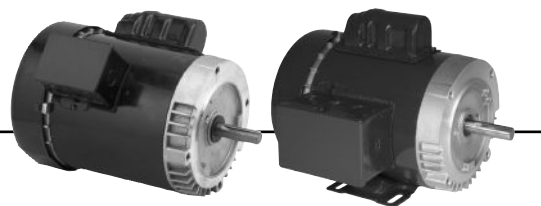
COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE MOTORS  
ALL TYPES

VARIABLE  
SPEED MOTORS  
AND DRIVES

# General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face



## APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start, Induction Run
- F1 Assembly
- Reversible Rotation
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz

## Footed

| HP    | RPM  | Voltage           | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps         | Notes    |
|-------|------|-------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|------------------------|----------|
| 1/4   | 1800 | 115/208-230       | 56C   | T14C2JC        | \$390 | DS-3F           | 1.15 | 11.1              | 22             | 6.5/2.8-3.2            | 25       |
|       | 1200 | 115/208-230       | 56C   | T14C3JC        | \$735 | DS-3FMP         | 1.15 | 11.4              | 32             | 6.4/3.0-3.2            | 25       |
| 1/3   | 1800 | 115/208-230       | 56C   | T13C2JC        | \$380 | DS-3F           | 1.15 | 11.0              | 19             | 6.6/3-3.3              | 25       |
|       | 1200 | 115/208-230       | 56C   | T13C3JC        | \$716 | DS-3FMP         | 1.15 | 11.4              | 32             | 6.8/3.4-3.4            | 25       |
| 1/2   | 1800 | 100-120 & 200-240 | 56C   | 6212           | \$565 | DS-3FMP         | 1.25 | 12.0              | 25             | 6.3-5.6/3.1-2.8        | 18,24,98 |
|       | 1800 | 115/208-230       | 56C   | T12C2JC        | \$482 | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5            | 25       |
|       | 1200 | 115/208-230       | 56C   | T12C3ZC        | \$770 | DS-3FMP         | 1.15 | 12.4              | 31             | 10.4/5.1-5.2 & 9.7/4.8 | 25       |
| 3/4   | 3600 | 115/208-230       | 56C   | T34C1JC        | \$417 | DS-3FMP         | 1.15 | 11.9              | 32             | 10.4/5.3-5.2           | 25       |
|       | 1800 | 100-120 & 200-240 | 56C   | 6214           | \$691 | DS-3FMP         | 1.25 | 12.0              | 32             | 9.2-8.4/4.6-4.2        | 24       |
|       | 1800 | 115/208-230       | 56C   | T34C2JC        | \$585 | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7           | 25       |
|       | 1200 | 115/208-230       | 56C   | T34C3JC        | \$975 | DS-3FMP         | 1.15 | 13.4              | 32             | 10.6/5.4-5.3           | 18,25    |
| 1     | 3600 | 115/208-230       | 56C   | T1C1JC         | \$489 | DS-3FMP         | 1.15 | 12.4              | 26             | 13.6/6.9-6.8           | 25       |
|       | 1800 | 100-120 & 200-240 | 56C   | T1CA2ZC        | \$730 | DS-3FMP         | 1.15 | 13.4              | 30             | 11.0-9.2/5.5-4.7       |          |
|       | 1800 | 100-120 & 200-240 | 56C   | T1CM2ZC        | \$760 | DS-3FMP         | 1.15 | 13.4              | 38             | 11.0-9.2/5.5-4.7       |          |
|       | 1800 | 115/208-230       | 143TC | T1C2J14C       | \$621 | DS-3F           | 1.15 | 12.4              | 32             | 14.0/6.9-7.0           | 25       |
|       | 1800 | 115/208-230       | 56HC  | T1C2JHC        | \$621 | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0           | 25       |
| 1 1/2 | 3600 | 115/208-230       | 56HC  | T32C1JHC       | \$603 | DS-3FMP         | 1.15 | 12.9              | 42             | 14.6/8.1-7.4           | 25       |
|       | 1800 | 115/208-230       | 145TC | T32C2J14C      | \$731 | DS-3F           | 1.15 | 13.9              | 45             | 14.4/8.0-7.2           | 25       |
|       | 1800 | 115/208-230       | 56HC  | T32C2JHC       | \$736 | DS-3FMP         | 1.15 | 13.9              | 41             | 14.4/8.0-7.2           | 25       |
| 2     | 3600 | 115/208-230       | 145TC | T2C1J14C       | \$778 | DS-3FMP         | 1.15 | 13.4              | 43             | 19.5/10.8-9.7          | 25       |
|       | 1800 | 115/208-230       | 145TC | T2C2J14C       | \$846 | DS-3FMP         | 1.15 | 13.9              | 46             | 18.9/10.3-9.4          | 18,25    |
|       | 1800 | 115/208-230       | 56HC  | T2C2JHC        | \$846 | DS-3FMP         | 1.15 | 13.9              | 43             | 18.9/10.3-9.4          | 18,25    |

Note 18 Incorporates Run Capacitor  
 Note 24 Automatic Reset Thermal Protector Overload  
 Note 25 Non-protected  
 Note 98 50/60 Hertz

† All marks shown within this document are properties of their respective owners.



# General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face

(continued)



## Footless

| HP    | RPM  | Voltage           | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps   | Notes    |
|-------|------|-------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|------------------|----------|
| 1/6   | 1200 | 115/208-230       | 56C   | 6182           | \$598   | DS-3FMP         | 1.15 | 11.5              | 17             | 4.1/2.0-2.1      | 23       |
| 1/4   | 1800 | 115/208-230       | 56C   | T14C2JCR       | \$330   | DS-3F           | 1.15 | 11.0              | 22             | 6.5/2.8-3.2      | 25       |
|       | 1200 | 115/208-230       | 56C   | T14C3JCR       | \$314   | DS-3F           | 1.15 | 11.4              | 32             | 6.4/3.0-3.2      | 25       |
| 1/3   | 1800 | 115/208-230       | 56C   | T13C2JCR       | \$380   | DS-3F           | 1.15 | 11.0              | 22             | 6.6/3.0-3.3      | 25       |
|       | 1800 | 115/208-230       | 56C   | T13CA2JCR      | \$380   | DS-3FMP         | 1.15 | 11.0              | 22             | 6.6/3.0-3.3      | 24       |
|       | 1800 | 115/230           | 42CZ  | T13C2P42ZCR    | \$394   | DS-3FMP         | 1.00 | 11.6              | 21             | 6.2/3.1          | 25       |
|       | 1200 | 115/208-230       | 56C   | T13C3JCR       | \$546   | DS-3F           | 1.15 | 11.4              | 32             | 6.8/3.4-3.4      | 25       |
| 1/2   | 3600 | 115/208-230       | 56C   | T12CA1JCR      | \$358   | DS-3FMP         | 1.15 | 12.0              | 18             | 8.0/3.8-4.0      | 24       |
|       | 1800 | 100-120 & 200-240 | 56C   | T12C2ZCR       | \$592   | DS-3FMP         | 1.25 | 12.0              | 25             | 6.3-5.6/3.1-2.8  | 18,25,98 |
|       | 1800 | 115/208-230       | 56C   | T12C2JCR       | \$439   | DS-3FMP         | 1.15 | 12.4              | 32             | 9.0/4.3-4.5      | 25       |
|       | 1800 | 115/208-230       | 56C   | T12CA2JCR      | \$496   | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5      | 24       |
|       | 1800 | 115/208-230       | 56C   | T12CM2JCR      | \$462   | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5      | 23       |
|       | 1200 | 115/208-230       | 56C   | T12C3JCR       | \$828   | DS-3FMP         | 1.15 | 12.4              | 32             | 10.4/5.1-5.2     | 25       |
| 3/4   | 3600 | 115/208-230       | 56C   | T34CA1JCR      | \$451   | DS-3FMP         | 1.15 | 11.9              | 32             | 10.4/5.3-5.2     | 24       |
|       | 1800 | 100-120 & 200-240 | 56C   | T34C2ZCR       | \$699   | DS-3FMP         | 1.25 | 12.4              | 23             | 9.2-8.4/4.6-4.2  | 18,25,98 |
|       | 1800 | 115/208-230       | 56C   | T34C2JCR       | \$527   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 25       |
|       | 1800 | 115/208-230       | 56C   | T34CA2JCR      | \$582   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 24       |
|       | 1800 | 115/208-230       | 56C   | T34CM2JCR      | \$551   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 23       |
|       | 1200 | 115/208-230       | 56C   | T34C3JCR       | \$932   | DS-3FMP         | 1.15 | 13.4              | 28             | 10.6/5.4-5.3     | 18,25    |
| 1     | 3600 | 115/208-230       | 56C   | T1CA1JCR       | \$524   | DS-3FMP         | 1.15 | 12.4              | 32             | 13.6/6.9-6.8     | 24       |
|       | 1800 | 100-120 & 200-240 | 56C   | T1C2ZCR        | \$713   | DS-3FMP         | 1.15 | 13.4              | 35             | 11.0-9.2/5.5-4.7 | 25       |
|       | 1800 | 115/208-230       | 143TC | T1C2J14CR      | \$638   | DS-3SP          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 25       |
|       | 1800 | 115/208-230       | 143TC | T1CA2J14CR     | \$677   | DS-3SP          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 24       |
|       | 1800 | 115/208-230       | 143TC | T1CM2J14CR     | \$700   | DS-3SP          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 23       |
|       | 1800 | 115/208-230       | 56C   | T1C2JCR        | \$571   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 25       |
|       | 1800 | 115/208-230       | 56C   | T1CA2JCR       | \$610   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 24       |
|       | 1800 | 115/208-230       | 56C   | T1CM2JCR       | \$633   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 23       |
|       | 1200 | 115/208-230       | 56C   | T1C3JCR        | \$1,011 | DS-3FMP         | 1.15 | 13.9              | 44             | 12.6/6.6-6.3     | 25       |
| 1 1/2 | 3600 | 115/208-230       | 143TC | T32C1J14CR     | \$637   | DS-3SP          | 1.15 | 12.9              | 32             | 14.6/8.1-7.4     | 25       |
|       | 3600 | 115/208-230       | 56C   | T32CA1JCR      | \$637   | DS-3FMP         | 1.15 | 12.9              | 32             | 14.6/8.1-7.4     | 24       |
|       | 1800 | 115/208-230       | 145TC | T32C2J14CR     | \$723   | DS-3SP          | 1.15 | 13.9              | 47             | 14.4/8.0-7.2     | 25       |
|       | 1800 | 115/208-230       | 145TC | T32CA2J14CR    | \$762   | DS-3SP          | 1.15 | 13.9              | 47             | 14.4/8.0-7.2     | 24       |
|       | 1800 | 115/208-230       | 145TC | T32CM2J14CR    | \$786   | DS-3SP          | 1.15 | 13.9              | 47             | 14.4/8.0-7.2     | 23       |
|       | 1800 | 115/208-230       | 56C   | T32C2JCR       | \$650   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 25       |
|       | 1800 | 115/208-230       | 56C   | T32CA2JCR      | \$689   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 24       |
|       | 1800 | 115/208-230       | 56C   | T32CM2JCR      | \$712   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 23       |
|       | 1800 | 115/208-230       | 56C   | T32CM2JCR      | \$712   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 23       |
| 2     | 3600 | 115/208-230       | 145C  | T2C1J14CR      | \$813   | DS-3SP          | 1.15 | 12.9              | 34             | 19.5/10.8-9.7    | 25       |
|       | 3600 | 115/208-230       | 56C   | T2CA1JCR       | \$813   | DS-3FMP         | 1.15 | 13.4              | 40             | 19.5/10.8-9.7    | 24       |
|       | 1800 | 115/208-230       | 145TC | T2C2J14CR      | \$969   | DS-3SP          | 1.15 | 13.9              | 46             | 18.9/10.3-9.4    | 25       |
|       | 1800 | 115/208-230       | 145TC | T2CA2J14CR     | \$1,008 | DS-3SP          | 1.00 | 14.4              | 40             | 18.9/10.3-9.4    | 24       |
|       | 1800 | 115/208-230       | 145TC | T2CM2J14CR     | \$1,031 | DS-3SP          | 1.00 | 13.9              | 40             | 18.9/10.3-9.4    | 23       |
|       | 1800 | 115/208-230       | 56C   | T2C2JCR        | \$739   | DS-3FMP         | 1.15 | 13.9              | 31             | 18.9/10.3-9.4    | 25       |
|       | 1800 | 115/208-230       | 56C   | T2CA2JCR       | \$778   | DS-3FMP         | 1.00 | 14.4              | 31             | 18.9/10.3-9.4    | 24       |
|       | 1800 | 115/208-230       | 56C   | T2CM2JCR       | \$801   | DS-3FMP         | 1.00 | 13.9              | 31             | 18.9/10.3-9.4    | 23       |

Note 18 Incorporates Run Capacitor  
 Note 23 Manual Reset Thermal Protector Overload  
 Note 24 Automatic Reset Thermal Protector Overload  
 Note 25 Non-protected

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# General Purpose Single Phase Open Dripproof (ODP) C-Face, Capacitor Start



## APPLICATIONS:

For air compressors, commercial duty pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Double Shielded Ball Bearings - Locked Drive End Bearings
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation

## Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/2   | 1800 | 115/208-230 | 56C   | D12C2JC        | \$454 | DS-3FMP         | 1.25 | 10.9              | 32             | 9.0/4.3-4.5    | 25,LA |
|       | 1800 | 115/230     | 56C   | D12CP2PC       | \$567 | DS-3FMP         | 1.25 | 9.9               | 23             | 5.0/2.6        | 25    |
| 3/4   | 3600 | 115/208-230 | 56HC  | D34CP1PHC      | \$441 | DS-3FMP         | 1.25 | 11.4              | 32             | 7.0/3.6        | 25    |
|       | 3600 | 115/208-230 | 56C   | D34C1JC        | \$353 | DS-3FMP         | 1.25 | 11.4              | 32             | 10.4/5.3-5.2   | 25,LA |
| 1     | 1800 | 115/230     | 56HC  | D34CP2PHC      | \$692 | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5        | 25    |
|       | 3600 | 115/230     | 56HC  | D1CP1PHC       | \$516 | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3        | 25    |
| 1     | 1800 | 115/230     | 56HC  | D1CP2PHC       | \$795 | DS-3FMP         | 1.15 | 12.4              | 31             | 8.8/4.4        | 25    |
|       | 1800 | 115/208-230 | 143TC | D1C2J14C       | \$636 | DS-3F           | 1.15 | 11.9              | 32             | 14.8/7.5-7.3   | 25    |
| 1 1/2 | 3600 | 115/208-230 | 56HC  | D32CP1PHC      | \$635 | DS-3FMP         | 1.15 | 12.9              | 31             | 13.3/6.7       | 25    |
|       | 3600 | 115/208-230 | 143TC | D32C1J14C      | \$508 | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3   | 25    |
| 1     | 3600 | 115/208-230 | 56HC  | D32C1JHC       | \$508 | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3   | 25,LA |
|       | 1800 | 115/208-230 | 145TC | D32C2J14C      | \$670 | DS-3FMP         | 1.15 | 13.0              | 32             | 19.2/10.0-9.6  | 25    |
| 2     | 1800 | 115/230     | 56HC  | D32CP2PHC      | \$836 | DS-3FMP         | 1.15 | 13.4              | 24             | 13.4/6.7       | 25    |
|       | 3600 | 115/208-230 | 145TC | D2C1J14C       | \$654 | DS-3FMP         | 1.15 | 12.4              | 32             | 22.4/12.4-11.2 | 25    |
| 2     | 3600 | 115/230     | 56HC  | D2CP1PHC       | \$817 | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 25    |
|       | 1800 | 115/230     | 56HC  | D2CP2PHC       | \$977 | DS-3FMP         | 1.15 | 13.4              | 46             | 17.0/8.5       | 25    |

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/3   | 1800 | 115/208-230 | 56C   | D13C2JCR       | \$339   | DS-3FMP         | 1.35 | 10.4              | 20             | 6.4/3.2        | 25,LA |
|       | 1800 | 115/208-230 | 56C   | D13CA2JCR      | \$387   | DS-3F           | 1.35 | 10.5              | 22             | 8.8/4.0-4.4    | 24,LA |
| 1/3   | 1800 | 115/230     | 56C   | D13CP2PCR      | \$423   | DS-3FMP         | 1.35 | 10.8              | 18             | 3.8/1.9        | 25    |
|       | 1800 | 115/230     | 56C   | D13CPA2PCR     | \$483   | DS-3F           | 1.35 | 9.9               | 16             | 3.9/1.9        | 24,98 |
| 1/2   | 3600 | 115/208-230 | 56C   | D12CA1JCR      | \$310   | DS-3FMP         | 1.25 | 11.0              | 18             | 9.2/4.4-4.6    | 24,LA |
|       | 1800 | 115/208-230 | 56C   | D12C2JCR       | \$398   | DS-3FMP         | 1.25 | 10.9              | 20             | 9.0/4.3-4.5    | 25,LA |
| 1/2   | 1800 | 115/208-230 | 56C   | D12CA2JCR      | \$456   | DS-3F           | 1.25 | 10.9              | 32             | 9.0/4.3-4.5    | 24,LA |
|       | 1800 | 115/230     | 56C   | 6184           | \$505   | DS-3FMP         | 1.25 | 10.9              | 20             | 8.4/4.2        | 24,LA |
| 1/2   | 1800 | 115/230     | 56C   | D12CP2PCR      | \$497   | DS-3FMP         | 1.25 | 10.9              | 22             | 5.0/2.6        | 25    |
|       | 1800 | 115/230     | 56C   | D12CPA2PCR     | \$570   | DS-3F           | 1.25 | 9.9               | 22             | 5.0/2.6        | 24    |
| 1/2   | 1200 | 115/208-230 | 56C   | D12C3JCR       | \$479   | DS-3F           | 1.25 | 11.9              | 32             | 10.4/5.1-5.2   | 25,LA |
|       | 1200 | 115/230     | 56C   | D12CP3PCR      | \$599   | DS-3F           | 1.25 | 12.3              | 36             | 4.8/2.4        | 25    |
| 3/4   | 3600 | 115/208-230 | 56C   | D34CA1JCR      | \$388   | DS-3FMP         | 1.25 | 11.4              | 32             | 10.4/5.3-5.2   | 24,LA |
|       | 3600 | 115/230     | 56C   | D34CPA1PCR     | \$485   | DS-3FMP         | 1.25 | 11.4              | 24             | 7.0/3.6        | 24    |
| 3/4   | 3600 | 115/230     | 56C   | D34CPM1JCR     | \$516   | DS-3FMP         | 1.25 | 11.4              | 24             | 7.0/3.6        | 23    |
|       | 1800 | 115/208-230 | 56C   | D34C2JCR       | \$488   | DS-3F           | 1.25 | 11.4              | 32             | 11.4/5.7-5.7   | 25,LA |
| 1     | 1800 | 115/230     | 56C   | D34CP2PCR      | \$610   | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5        | 25    |
|       | 1800 | 115/230     | 56C   | D34CPA2PCR     | \$690   | DS-3FMP         | 1.25 | 12.9              | 29             | 7.0/3.5        | 24    |
| 1     | 3600 | 115/230     | 56C   | D1CPA1PCR      | \$560   | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3        | 24    |
|       | 3600 | 115/230     | 56H   | D1CP1PCR       | \$506   | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3        | 25    |
| 1     | 1800 | 115/230     | 56C   | D1CPA2PCR      | \$711   | DS-3FMP         | 1.15 | 12.4              | 31             | 8.8/4.4        | 24    |
|       | 1800 | 115/208-230 | 56C   | D1C2JCR        | \$530   | DS-3FMP         | 1.15 | 11.9              | 32             | 14.8/7.5-7.3   | 25,LA |
| 1 1/2 | 1800 | 115/230     | 56C   | D1CP2PCR       | \$662   | DS-3FMP         | 1.15 | 13.1              | 31             | 8.8/4.4        | 25    |
|       | 3600 | 115/208-230 | 56C   | D32C1JCR       | \$499   | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3   | 25,LA |
| 1 1/2 | 3600 | 115/208-230 | 56C   | D32CP1PCR      | \$623   | DS-3FMP         | 1.15 | 12.9              | 32             | 13.3/6.7       | 25    |
|       | 3600 | 115/230     | 56C   | D32CPA1PCR     | \$678   | DS-3FMP         | 1.15 | 12.9              | 31             | 13.3/6.7       | 24    |
| 1 1/2 | 1800 | 115/208-230 | 145TC | D32C2J14CR     | \$579   | DS-3F           | 1.15 | 13.0              | 32             | 19.2/10.0-9.6  | 25    |
|       | 1800 | 115/208-230 | 56C   | D32C2JCR       | \$555   | DS-3FMP         | 1.15 | 12.9              | 32             | 19.2/10.0-9.6  | 25,LA |
| 1 1/2 | 1800 | 115/208-230 | 56C   | D32CA2JCR      | \$594   | DS-3FMP         | 1.15 | 12.9              | 32             | 19.2/10.0-9.6  | 24,LA |
|       | 1800 | 115/230     | 56C   | D32CPA2PCR     | \$742   | DS-3FMP         | 1.15 | 12.9              | 42             | 13.4/6.7       | 24    |
| 2     | 1800 | 115/230     | 56H   | D32CP2PCR      | \$693   | DS-3FMP         | 1.15 | 12.9              | 24             | 13.4/6.7       | 25    |
|       | 3600 | 115/230     | 56C   | D2CP1PCR       | \$807   | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 25    |
| 2     | 3600 | 115/230     | 56C   | D2CPA1PCR      | \$861   | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 24    |
|       | 3600 | 115/208-230 | 145C  | D2C1J14CR      | \$646   | DS-3FMP         | 1.15 | 12.4              | 36             | 22.4/12.4-11.2 | 25    |
| 2     | 3600 | 115/208-230 | 56C   | D2C1JCR        | \$646   | DS-3FMP         | 1.15 | 12.4              | 32             | 22.4/12.4-11.2 | 25,LA |
|       | 1800 | 115/208-230 | 145TC | D2CA2J14CR     | \$831   | DS-3F           | 1.15 | 14.0              | 40             | 20.0/11.3-10.0 | 24    |
| 2     | 1800 | 115/208-230 | 56C   | D2CA2JCR       | \$831   | DS-3FMP         | 1.15 | 13.4              | 32             | 20.0/11.3-10.0 | 24,LA |
|       | 1800 | 115/230     | 56C   | D2CP2PCR       | \$990   | DS-3FMP         | 1.15 | 13.4              | 42             | 17.0/8.5       | 25    |
| 2     | 1800 | 115/230     | 56C   | D2CPA2PCR      | \$1,038 | DS-3FMP         | 1.15 | 13.4              | 42             | 17.0/8.5       | 24    |
|       | 1800 | 115/208-230 | 56C   | D2C2JCR        | \$792   | DS-3F           | 1.15 | 13.4              | 40             | 20.0/11.3-10.0 | 25,LA |
| 3     | 3600 | 208-230     | 56C   | D3CA1JCR       | \$775   | DS-3FMP         | 1.15 | 13.9              | 41             | 16.3-14.7      | 24,LA |

Note 18 Incorporates Run Capacitor

Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected

Note 98 50/60 Hertz

Note LA Limited Availability



EXTREME E® represents our most efficient running, highest performing lines of motors.

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# EVERY DROP COUNTS.

**ACCU-Series™ Pump Panels for Agricultural Irrigation**  
**U.S. MOTORS®** brand inverter duty solutions. One company. One point of responsibility. Motor match drive warranty.



**We Build More Than Just Motors.  
We Build Solutions.**

***Nidec***

NIDEC MOTOR CORPORATION



# Complete Solutions. Rapid Delivery.

DS-AGPS

Nidec Motor Corporation provides rapid delivery of the most popular panels from stock with the ability to quickly configure panels with pre-engineered options.

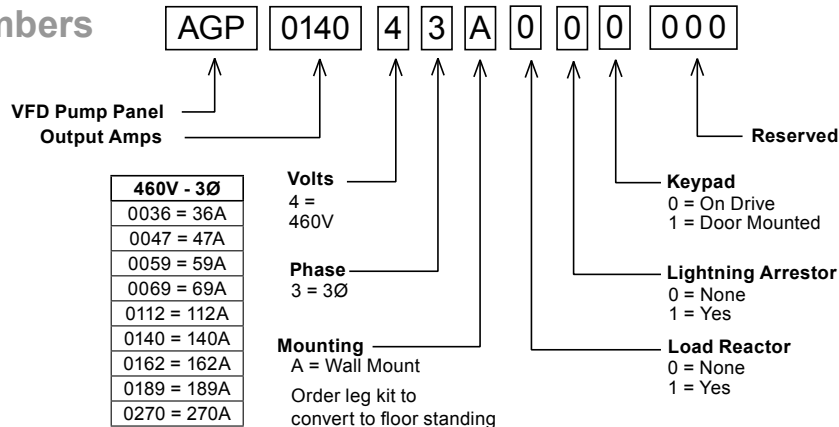
## Standard ACCU-Series Pump Panel Features

- NEMA 3R enclosure
- UL 508 listed
- 50 degrees C rated operation
- 460V, 3-Phase
- Ventilating fans with mesh filters
- Circuit breaker disconnect
- HOA switch
- Door mounted speed potentiometer
- Pilot light and door lock
- Line reactor

| 460V - 3 Phase Input |                           |             |                  |            |
|----------------------|---------------------------|-------------|------------------|------------|
| Motor                |                           | Drive Panel |                  |            |
| HP                   | Catalog Number            | Amps        | Catalog Number   | Panel List |
| 30                   | HO30V2BLF                 | 36          | AGP003643A000000 | \$11,266   |
| 40                   | HO40V2BLG<br>HO40V2BLF    | 47          | AGP004743A000000 | \$12,526   |
| 50                   | HO50V2BLG                 | 59          | AGP005943A000000 | \$14,019   |
| 60                   | HO60V2SLG                 | 69          | AGP006943A000000 | \$18,131   |
| 75                   | HO75V2SLG                 | 112         | AGP011243A000000 | \$19,466   |
| 100                  | HO100V2SLG<br>HO100V2SLGX | 140         | AGP014043A000000 | \$22,128   |
| 125                  | HO125V2SLG<br>HO125V2SLGX | 162         | AGP016243A000000 | \$24,301   |
| 150                  | HO150V2SLG<br>HO150V2SLGX | 189         | AGP018943A000000 | \$27,842   |
| 200                  | HO200V2SLH<br>HO200V2SLHX | 270         | AGP027043B000000 | \$37,313   |
| 250                  | HO250V2SLH<br>HO250V2SLHX | 335         | AGP033543B000000 | \$44,119   |
| 300                  | HO300V2SLH<br>HO300V2SLHX | 370         | AGP037043B000000 | \$52,572   |
| 350                  | HO350V2SLH<br>HO350V2SLHX | 459         | AGP045943B000000 | \$66,047   |
| 400                  | HO400V2SLH<br>HO400V2SLHX |             |                  |            |
| 450                  | HO450V2SLH<br>HO450V2SLHX | 580         | AGP058043B000000 | \$86,643   |
| 500                  | HO500V2SLH<br>HO500V2SLHX |             |                  |            |
| 600                  | HO600V2SLJX               |             |                  |            |
| 600                  | HO600V2SLJX               | 680         | AGP068043B000000 | \$107,833  |

| Options                               |                           |                    |                           |                       |                          |
|---------------------------------------|---------------------------|--------------------|---------------------------|-----------------------|--------------------------|
| Floor Standing<br>Leg Kits<br>12" 24" | Output<br>Load<br>Reactor | Surge<br>Protector | Door<br>Mounted<br>Keypad | 3-Contactor<br>Bypass | Panel<br>Space<br>Heater |
| AGPLEG12A<br>\$350                    | AGPLEG24A<br>\$375        | \$696              |                           | \$2,247               |                          |
|                                       |                           | \$732              |                           | \$2,695               |                          |
| AGPLEG12B<br>\$350                    | AGPLEG24B<br>\$375        | \$986              |                           | \$2,695               |                          |
|                                       |                           | \$1,000            |                           | \$2,695               |                          |
|                                       |                           | \$1,230            |                           | \$2,888               |                          |
|                                       |                           | \$1,330            |                           | \$4,985               |                          |
|                                       |                           | \$1,510            |                           | \$5,995               |                          |
| Included                              | Not<br>Available          | \$2,068            |                           | \$5,995               |                          |
|                                       |                           | \$2,446            | \$475                     | \$12,579              | \$550                    |
|                                       |                           | \$3,700            |                           | \$14,143              |                          |
|                                       |                           | \$4,962            |                           | \$14,403              |                          |
|                                       |                           | \$6,446            |                           | \$22,033              |                          |
|                                       |                           | \$7,900            |                           | \$27,572              |                          |
|                                       |                           | \$9,788            |                           | \$31,388              |                          |

## Ordering Part Numbers and Options



**Nidec**  
NIDEC MOTOR CORPORATION

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# Variable Frequency Drives

**Horsepower:**

- 1/8 - 650      110% Overload
- 1/8 - 500      150% Overload

**Phase:**

- 1 - Phase
- 3 - Phase

**Voltage:** 115, 230, 460 and 575

**Enclosure:**

- IP00
- IP20
- NEMA 1 / IP20 & IP50
- NEMA 4x / IP65
- CHASSIS / IP20
- NEMA 3R PANEL



## ACCU-Series Drives

With the ACCU-Series line, customers can easily match a U.S. MOTORS® brand inverter duty motor with a Nidec drive or panel, or purchase integrated motors and controls. These solution-driven products, designed to be used together as a system, make it easy for the customers to choose compatible motors and drives that are engineered to work together for better, more reliable performance.

By offering all components of the drive system, Nidec also gives the customers a single point of contact for support and service. And, by matching a new U.S. MOTORS® brand inverter duty motor with a drive in the ACCU-Series line, a customer can enjoy the benefits of a motor match warranty that extends the drive warranty to match that of the motor.



## AD700E

The AD700E, a member of the ACCU-SERIES family of variable speed products, is a cost-effective and easy to use general purpose drive, providing precise motor control and energy savings. With 14 basic parameters, the AD700 E low voltage drive offers quick and easy setup. The 50 parameters in total, offer a high degree of flexibility for a wide range of open and closed loop applications in food & beverage, packaging, conveyors, pumps, fans and many more..

### Voltage and Power Range:

- 1-Phase, 110-115V Input  
3-Phase, 200-240V Output  
0.5 - 1.5 HP
- 1-Phase, 200-240V  
3-Phase, 200-240V Output  
0.5 - 5.0 HP
- 3-Phase, 200-240V  
0.5 - 15 HP
- 3-Phase, 380-480V  
1.0 - 30 HP

### Control Modes:

Volts/Hz, Sensorless Vector, Energy Optimized, PM Vector, BLDC, Synchronous Reluctance



### IP20, 1-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP           | Drive Amps | Catalog Number  | EMC Filter | Brake Transistor | Dimensions (in) H x W x D | Approx. Weight | List Price | Discount Symbol |
|---------------|----------------------------|------------|-----------------|------------|------------------|---------------------------|----------------|------------|-----------------|
| 200 - 240 VAC | Input Power, 110 - 120 Vac |            |                 |            |                  |                           |                |            |                 |
|               | 0.5                        | 2.3        | AD07E1102310002 | N          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$376      | DS-5EV          |
|               | 1                          | 4.3        | AD07E1104310002 | N          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$432      | DS-5EV          |
|               | 1.5                        | 5.8        | AD07E2105810012 | N          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$501      | DS-5EV          |
|               | Input Power, 200 - 240 Vac |            |                 |            |                  |                           |                |            |                 |
|               | 0.5                        | 2.3        | AD07E1202310102 | Y          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$340      | DS-5EV          |
|               | 1                          | 4.3        | AD07E1204310102 | Y          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$395      | DS-5EV          |
|               | 2                          | 7          | AD07E1207010102 | Y          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$475      | DS-5EV          |
|               | 2                          | 7          | AD07E2207010112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$495      | DS-5EV          |
|               | 3                          | 10.5       | AD07E2210510112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$562      | DS-5EV          |
|               | 5                          | 15.3       | AD07E3215310012 | N          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$852      | DS-5EV          |

### IP20, 3-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP           | Drive Amps | Catalog Number  | EMC Filter | Brake Transistor | Dimensions (in) H x W x D | Approx. Weight | List Price | Discount Symbol |
|---------------|----------------------------|------------|-----------------|------------|------------------|---------------------------|----------------|------------|-----------------|
| 200 - 240 VAC | Input Power, 200 - 240 Vac |            |                 |            |                  |                           |                |            |                 |
|               | 0.5                        | 2.3        | AD07E1202330002 | N          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$376      | DS-5EV          |
|               | 1                          | 4.3        | AD07E1204330002 | N          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$431      | DS-5EV          |
|               | 2                          | 7          | AD07E2207030112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$574      | DS-5EV          |
|               | 3                          | 10.5       | AD07E2210530112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$663      | DS-5EV          |
|               | 5                          | 18         | AD07E3218030112 | Y          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$879      | DS-5EV          |
|               | 7.5                        | 24         | AD07E3224030112 | Y          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$1,007    | DS-5EV          |
|               | 10                         | 30         | AD07E4230030112 | Y          | Y                | 16.9 x 6.7 x 8.3          | 20             | \$1,475    | DS-5EV          |
|               | 15                         | 36         | AD07E4246030112 | Y          | Y                | 16.9 x 6.7 x 8.3          | 20             | \$1,776    | DS-5EV          |
|               | Input Power, 380 - 480 Vac |            |                 |            |                  |                           |                |            |                 |
| 380 - 480 VAC | 1                          | 2.2        | AD07E1402230102 | Y          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$421      | DS-5EV          |
|               | 2                          | 4.1        | AD07E1404130102 | Y          | N                | 6.8 x 3.3 x 4.8           | 2.2            | \$549      | DS-5EV          |
|               | 2                          | 4.1        | AD07E2404130112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$549      | DS-5EV          |
|               | 3                          | 5.8        | AD07E2405830112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$702      | DS-5EV          |
|               | 5                          | 9.5        | AD07E2409530112 | Y          | Y                | 8.7 x 4.3 x 5.9           | 3.7            | \$794      | DS-5EV          |
|               | 7.5                        | 14         | AD07E3414030112 | Y          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$941      | DS-5EV          |
|               | 10                         | 18         | AD07E3418030112 | Y          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$1,076    | DS-5EV          |
|               | 15                         | 24         | AD07E3424030112 | Y          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$1,368    | DS-5EV          |
|               | 15                         | 24         | AD07E3424030012 | N          | Y                | 10.3 x 5.2 x 6.9          | 7.1            | \$1,368    | DS-5EV          |
|               | 20                         | 30         | AD07E4430030112 | Y          | Y                | 16.9 x 6.7 x 8.3          | 20             | \$1,654    | DS-5EV          |
|               | 25                         | 39         | AD07E4439030112 | Y          | Y                | 16.9 x 6.7 x 8.3          | 20             | \$1,826    | DS-5EV          |
|               | 30                         | 46         | AD07E4446030112 | Y          | Y                | 16.9 x 6.7 x 8.3          | 20             | \$2,283    | DS-5EV          |

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## AD700P

Nidec ACCU-Series™ AD700P drives provide efficient, reliable and quiet control of motors for HVAC and pumping applications. Designed to provide maximum operating efficiency while minimizing environmental impact, AD700P offers unrivalled performance and flexibility, while meeting the key standards and requirements of demanding applications.

### Voltage and Power Range:

- 3-Phase, 500-600V
- 1.0 - 175 HP

### Control Modes:

V/H, Sensorless Vector, Energy Optimized, PM Vector, BLDC, Synchronous Reluctance



### IP20, 3-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP           | Drive Amps | Catalog Number  | EMC Filter | Brake Transistor | Dimensions (in) H x W x D | Approx. Weight | List Price | Discount Symbol |
|---------------|----------------------------|------------|-----------------|------------|------------------|---------------------------|----------------|------------|-----------------|
| 575 VAC       | Input Power, 500 - 600 Vac |            |                 |            |                  |                           |                |            |                 |
|               | 1                          | 2.1        | AD07P2502130002 | N          | Y                | 8.7 X 4.3 X 7.3           | 4              | \$880      | DS-5EV          |
|               | 2                          | 3.1        | AD07P2503130002 | N          | Y                | 8.7 X 4.3 X 7.3           | 4              | \$957      | DS-5EV          |
|               | 3                          | 4.1        | AD07P2504130002 | N          | Y                | 8.7 X 4.3 X 7.3           | 4              | \$1,014    | DS-5EV          |
|               | 5                          | 6.5        | AD07P2506530002 | N          | Y                | 8.7 X 4.3 X 7.3           | 4              | \$1,159    | DS-5EV          |
|               | 7.5                        | 9          | AD07P2509030002 | N          | Y                | 8.7 X 4.3 X 7.3           | 4              | \$1,186    | DS-5EV          |
|               | 10                         | 12         | AD07P3512030002 | N          | Y                | 10.3 x 5.2 x 8.1          | 7.7            | \$1,857    | DS-5EV          |
|               | 15                         | 17         | AD07P3517030002 | N          | Y                | 10.3 x 5.2 x 8.1          | 7.7            | \$2,016    | DS-5EV          |
|               | 20                         | 22         | AD07P3522030002 | N          | Y                | 10.3 x 5.2 x 8.1          | 7.7            | \$2,138    | DS-5EV          |

### IP55, 3-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP           | Drive Amps | Catalog Number  | EMC Filter | Brake Transistor | Dimensions (in) H x W x D | Approx. Weight | List Price | Discount Symbol |
|---------------|----------------------------|------------|-----------------|------------|------------------|---------------------------|----------------|------------|-----------------|
| 575 VAC       | Input Power, 500 - 600 Vac |            |                 |            |                  |                           |                |            |                 |
|               | 20                         | 22         | AD07P4522030005 | N          | Y                | 17.7 X 6.7 X 9.9          | 26             | \$3,346    | DS-5EV          |
|               | 25                         | 28         | AD07P4528030005 | N          | Y                | 17.7 X 6.7 X 9.9          | 26             | \$3,708    | DS-5EV          |
|               | 30                         | 34         | AD07P4534030005 | N          | Y                | 17.7 X 6.7 X 9.9          | 26             | \$4,023    | DS-5EV          |
|               | 40                         | 43         | AD07P4543030005 | N          | Y                | 17.7 X 6.7 X 9.9          | 26             | \$4,354    | DS-5EV          |
|               | 50                         | 54         | AD07P5554030005 | N          | Y                | 21.3 X 9.3 X 10.6         | 51             | \$4,994    | DS-5EV          |
|               | 60                         | 65         | AD07P5565030005 | N          | Y                | 21.3 X 9.3 X 10.6         | 51             | \$5,870    | DS-5EV          |
|               | 75                         | 78         | AD07P6578030005 | N          | Y                | 34.0 X 13.0 X 13.0        | 121            | \$8,511    | DS-5EV          |
|               | 100                        | 105        | AD07P65X1030005 | N          | Y                | 34.0 X 13.0 X 13.0        | 121            | \$10,242   | DS-5EVX         |
|               | 150                        | 130        | AD07P65X1330005 | N          | Y                | 34.0 X 13.0 X 13.0        | 121            | \$11,044   | DS-5EVX         |
|               | 175                        | 150        | AD07P65X1530005 | N          | Y                | 34.0 X 13.0 X 13.0        | 121            | \$12,055   | DS-5EVX         |

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## AD1000

The AD1000, a member of the ACCU-SERIES family of products, is a high-performance variable frequency drive that can reduce energy consumption by automatically adjusting to changing operating conditions in a wide range of water, wastewater, irrigation and other pump applications. Developed by pump automation experts at Nidec, the versatile and reliable AD1000 is designed for optimum performance and reliability with minimal maintenance. While virtually plug and play for standard applications, the AD1000's flexible, modular design can also be easily configured to meet the most challenging applications.

### Voltage and Power Range:

- 3-Phase, 380-480V
- 2 - 650 HP Variable Torque (110% Overload)
- 1.5 - 500 HP Constant Torque (150% Overload)

### Control Modes:

Volts/Hz, Sensorless Vector



### IP20, 3-Phase Input, 3-Phase Output

| Motor Voltage | Motor HP      | Drive Amps | Motor HP      | Drive Amps | Catalog Number | Dimensions (in)<br>H x W x D | Approx. Weight | List Price | Discount Symbol |
|---------------|---------------|------------|---------------|------------|----------------|------------------------------|----------------|------------|-----------------|
| 380 - 480 VAC | 110% Overload |            | 150% Overload |            |                |                              |                |            |                 |
|               | 2             | 3.8        | 1.5           | 2.1        | AD1A0P3FBBNHN  | 10.7 x 5.2 x 6.7             | 8.8            | \$1,821    | DS-5EV          |
|               | 3             | 5.6        | 2             | 3.8        | AD1A0P4FBBNHN  | 10.7 x 5.2 x 6.7             | 8.8            | \$1,851    | DS-5EV          |
|               | 5             | 9.5        | 3             | 5.6        | AD1A0P6FBBNHN  | 10.7 x 5.2 x 6.7             | 8.8            | \$1,887    | DS-5EV          |
|               | 7.5           | 12         | 5             | 9.5        | AD1A008FBBNHN  | 13.4 x 5.1 x 8.8             | 12             | \$2,036    | DS-5EV          |
|               | 10            | 16         | 7.5           | 12         | AD1A011FBBNHN  | 17.4 x 5.1 x 8.8             | 18             | \$2,102    | DS-5EV          |
|               | 15            | 21         | 10            | 16         | AD1A015FBBNHN  | 17.4 x 5.1 x 8.8             | 18             | \$2,229    | DS-5EV          |
|               | 20            | 25         | 15            | 21         | AD1A018FBBNHN  | 18.4 x 5.1 x 9.7             | 18             | \$2,294    | DS-5EV          |
|               | 25            | 32         | 20            | 25         | AD1A022FBBNHN  | 18.4 x 5.1 x 9.7             | 18             | \$2,491    | DS-5EV          |
|               | 30            | 40         | 25            | 32         | AD1A028FBBNHN  | 18.4 x 5.1 x 10.2            | 23             | \$3,186    | DS-5EV          |
|               | 30            | 40         | 25            | 32         | AD1A030FBBFHN  | 17.9 x 9.7 x 11.0            | 71             | \$3,588    | DS-5EV          |
|               | 40            | 52         | 30            | 40         | AD1A036FBBFHN  | 17.9 x 9.7 x 11.0            | 71             | \$4,821    | DS-5EV          |
|               | 50            | 65         | 50            | 52         | AD1A045FBNFHN  | 26.6 x 11.4 x 11.4           | 79             | \$5,356    | DS-5EV          |
|               | 60            | 77         | 50            | 65         | AD1A053FBNFHN  | 26.6 x 11.4 x 11.4           | 79             | \$5,463    | DS-5EV          |
|               | 75            | 96         | 60            | 77         | AD1A066FBNFHN  | 26.6 x 11.4 x 11.4           | 88             | \$6,302    | DS-5EV          |
|               | 100           | 124        | 75            | 96         | AD1A086FBNFHN  | 29.7 x 11.4 x 12.0           | 115            | \$7,256    | DS-5EVX         |
|               | 125           | 156        | 100           | 124        | AD1A108FBNFHN  | 29.7 x 11.4 x 12.0           | 115            | \$8,426    | DS-5EVX         |
|               | 150           | 180        | 125           | 156        | AD1A125FBNFHN  | 39.4 x 11.8 x 13.2           | 194            | \$9,938    | DS-5EVX         |
|               | 180           | 210        | 150           | 180        | AD1A150FBNFHN  | 39.4 x 11.8 x 13.2           | 212            | \$11,874   | DS-5EVX         |
|               | 200           | 240        | 200           | 200        | AD1A166FBNFHN  | 39.4 x 11.8 x 13.2           | 212            | \$12,696   | DS-5EVX         |

### IP00, 3-Phase Input, 3-Phase Output

| Motor Voltage | Motor HP      | Drive Amps | Motor HP      | Drive Amps | Catalog Number | Dimensions (in)<br>H x W x D | Approx. Weight | List Price | Discount Symbol |
|---------------|---------------|------------|---------------|------------|----------------|------------------------------|----------------|------------|-----------------|
| 380 - 480 VAC | 110% Overload |            | 150% Overload |            |                |                              |                |            |                 |
|               | 250           | 300        | 200           | 240        | AD1A210FBNFHN  | 42.0 x 11.4 x 20.7           | 265            | \$16,789   | DS-5EVX         |
|               | 300           | 370        |               | 285        | AD1A260FBNFHN  | 42.0 x 11.4 x 20.7           | 265            | \$19,201   | DS-5EVX         |
|               | 350           | 410        | 250           | 320        | AD1A290FBNFHN  | 42.0 x 11.4 x 20.7           | 265            | \$20,779   | DS-5EVX         |
|               | 400           | 510        | 300           | 385        | AD1A350FBNFHN  | 58.7 x 11.4 x 20.7           | 441            | \$23,402   | DS-5EVX         |
|               | 450           | 540        | 350           | 410        | AD1A370FBNFHN  | 58.7 x 11.4 x 20.7           | 441            | \$25,817   | DS-5EVX         |
|               | 550           | 640        | 400           | 510        | AD1A440FBNFHN  | 58.7 x 11.4 x 20.7           | 441            | \$30,248   | DS-5EVX         |
|               | 600           | 690        | 450           | 530        | AD1A480FBNFHN  | 58.7 x 11.4 x 20.7           | 441            | \$33,188   | DS-5EVX         |
|               | 650           | 750        | 500           | 585        | AD1A520FBNFHN  | 58.7 x 11.4 x 20.7           | 441            | \$36,795   | DS-5EVX         |

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## HYBRID DRIVES - NEMA 1 / IP20 & 1P50

The US Motors brand of Hybrid drives are a member of the ACCU-SERIES family of variable speed products. US Motors Hybrid drives are digital drives with an analog interface that makes them easy to install and simple to operate. They typically do not require programming or commissioning. Proprietary overload protection prevents motor burnout and eliminates nuisance tripping. The Hybrid drives are available in several enclosure types: Chassis / IP20, NEMA 1 / IP20 & IP50 and NEMA 4X / IP65. The NEMA 4X / IP65 drives are housed in rugged die-cast aluminum enclosures with hinged cover.

### Voltage and Power Range:

- 1-Phase, 115 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.25 - 1 HP
- 1-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.25 - 1 HP



### USWA Hybrid Drive™ – NEMA 1 Enclosures\*

The USWA Series of Adjustable Frequency Drives consist of two inverter models rated for 1/4 to 1/2 horsepower\*\* motors. These drives are housed in NEMA 1 enclosures\*. Both models Hybrid contain an On/Off AC Line Switch and a Main Speed Potentiometer. Hybrid drives are digital drives with an analog interface.

**Option:** Supplied Forward-Stop-Reverse Switch

### NEMA 1, 1-Phase Input, 3-Phase Output\*

| Motor Voltage | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) W x L x D | Approx. Weight (lbs) | List Price | Discount Symbol |
|---------------|------------------|----------------------------|--------------------------------|----------------|--------------------------|---------------------------|----------------------|------------|-----------------|
| 208-240 VAC   | 0.25             | 115                        | 1.3                            | USWA22D        | 0-208/230                | 3.92 x 6.06 x 3.65        | 1.58                 | \$270      | DS-5EV          |
|               |                  | 208/230                    | 1.5                            |                |                          |                           |                      |            |                 |
|               | 0.5              | 115                        | 2.2                            | USWA23D        | 0-208/230                | 3.92 x 6.06 x 3.65        | 1.58                 | \$270      | DS-5EV          |
|               |                  | 208/230                    | 2.4                            |                |                          |                           |                      |            |                 |

\* Catalog Numbers USWA-22D (IP50), Catalog Numbers USWA-23D (IP20). \*\*Lower horsepower drives available (USWA-21D, 2P3D, 2P6D).

### USMA Hybrid Drive™ – NEMA 1 / IP50

The USMA Series of Adjustable Frequency Drives consist of two inverter models rated for 1/8 to 1 horsepower motors. These drives are housed in NEMA 1 / IP50 aluminum enclosures. The USMA-24DF contains a built-in CE approved AC Line Class "A" Standard RFI (EMI) Filter.

**Option:** Supplied Forward-Stop-Reverse Switch

### NEMA 1, 1-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) W x L x D | Approx. Weight (lbs) | List Price | Discount Symbol |
|---------------|------------------|----------------------------|--------------------------------|----------------|--------------------------|---------------------------|----------------------|------------|-----------------|
| 208/230 VAC   | 1                | 115                        | 3.6                            | USMA24D        | 0-208/230                | 4.95 x 7 x 4.15           | 2.42                 | \$340      | DS-5EV          |
|               |                  | 208/230                    |                                |                |                          |                           |                      |            |                 |
|               |                  | 115                        | 3.6                            | USMA24DF       | 0-208/230                | 4.95 x 7 x 4.15           | 2.42                 | \$345      | DS-5EV          |
|               |                  | 208/230                    |                                |                |                          |                           |                      |            |                 |

**Option List Prices:** Add electronics drive and required option list prices, then use applicable multiplier to calculate net price.

| Options                                    | Catalog Number | List Price | Discount Symbol |
|--------------------------------------------|----------------|------------|-----------------|
| USWA Replacement FSR Switch Kit            | USWAFSRS       | \$29       | DS-5EV          |
| USWA Replacement On/Off AC Line Switch Kit | USWAWKOOS      | \$27       | DS-5EV          |
| USMA Forward/Stop/Reverse Switch Kit       | USMAFSRS       | \$35       | DS-5EV          |

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## USAC HYBRID DRIVES - NEMA 4X / IP65

The USAC Hybrid drives are a member of the ACCU-SERIES family of variable speed products. The USAC Series of Adjustable Frequency Drives consist of eight inverter models rated for 1/8 to 10 HP motors. These drives are housed in heavy duty NEMA 4X / IP 65 die-cast aluminum washdown/watertight enclosures for indoor or outdoor use. Hybrid drives are a digital drive with an analog interface.

### Voltage and Power Range:

- 1-Phase, 115 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.5 - 1.5 HP
- 1-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.5 - 2.0 HP
- 3-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
3 - 5 HP
- 3-Phase, 400/460 VAC Input  
3-Phase, 0 - 400/460 VAC Output  
3 - 10 HP



### NEMA 4X / IP65, 1-Phase and 3-Phase Input, 3-Phase Output

| Motor Voltage   | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Phase (Ø) Input | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) H x W x D | Approx. Weight (lbs) | List Price | Discount Symbol |
|-----------------|------------------|----------------------------|--------------------------------|-----------------|----------------|--------------------------|---------------------------|----------------------|------------|-----------------|
| 115-208/230 VAC | 1                | 115                        | 3.6                            | 1               | USAC24D        | 0-208/230                | 9.53 x 5.51 x 5.86        | 5.9                  | \$483      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 |                |                          |                           |                      |            |                 |
|                 | 1                | 115                        | 3.6                            | 1               | USAC24DW*      | 0-208/230                | 9.53 x 5.51 x 5.86        | 5.9                  | \$503      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 |                |                          |                           |                      |            |                 |
|                 | 1.5              | 115                        | 5.5                            | 1               | USAC27D        | 0-208/230                | 9.8 x 7.55 x 7.25         | 10.3                 | \$725      | DS-5EV          |
|                 | 2                | 208/230                    | 6.7                            |                 |                |                          |                           |                      |            |                 |
| 208/230 VAC     | 1.5              | 115                        | 5.5                            | 1               | USAC27DW*      | 0-208/230                | 9.8 x 7.55 x 7.25         | 10.3                 | \$745      | DS-5EV          |
|                 | 2                | 208-230                    | 6.7                            |                 |                |                          |                           |                      |            |                 |
|                 | 3                | 208/230                    | 9.0                            | 1               | USAC291P       | 0-208/230                | 9.8 x 7.55 x 7.25         | 10.3                 | \$765      | DS-5EV          |
|                 | 3                | 208/230                    | 9.0                            | 1               | USAC291PW*     | 0-208/230                | 9.8 x 7.55 x 7.25         | 10.3                 | \$785      | DS-5EV          |
|                 | 2                | 208/230                    | 6.7                            | 1               | USAC29         | 0-208/230                | 9.8 x 7.55 x 7.25         | 10.3                 | \$765      | DS-5EV          |
|                 | 3                |                            | 9.0                            | 3               |                |                          |                           |                      |            |                 |
|                 | 2                | 208/230                    | 6.7                            | 1               | USAC29W*       | 0-208/230                | 9.8 x 7.55 x 7.25         | 10.3                 | \$785      | DS-5EV          |
|                 | 3                |                            | 9.0                            | 3               |                |                          |                           |                      |            |                 |

\*FDA approved finish (white cases only).

### NEMA 4X / IP65, 3-Phase Input, 3-Phase Output

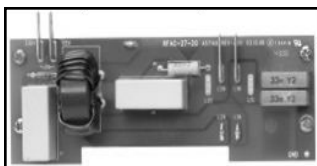
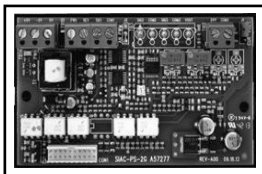
| Motor Voltage | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Phase (Ø) Input | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) H x W x D | Approx. Weight (lbs) | List Price | Discount Symbol |
|---------------|------------------|----------------------------|--------------------------------|-----------------|----------------|--------------------------|---------------------------|----------------------|------------|-----------------|
| 400/460 VAC   | 5                | 400/460                    | 17                             | 3               | USAC217S       | 0-208/230                | 14 x 10.5 x 9             | 22                   | \$1,501    | DS-5EV          |
|               | 5                | 400/460                    | 17                             | 3               | USAC217SW*     | 0-208/230                | 14 x 10.5 x 9             | 22                   | \$1,520    | DS-5EV          |
|               | 3                | 400/460                    | 5.5                            | 3               | USAC45         | 0-400/460                | 9.8 x 7.55 x 7.25         | 10.3                 | \$738      | DS-5EV          |
|               | 3                | 400/460                    | 5.5                            | 3               | USAC45W*       | 0-400/460                | 9.8 x 7.55 x 7.25         | 10.3                 | \$758      | DS-5EV          |
|               | 5                | 400/460                    | 8.3                            | 3               | USAC48         | 0-400/460                | 9.8 x 7.55 x 7.25         | 10.3                 | \$760      | DS-5EV          |
|               | 5                | 400/460                    | 8.3                            | 3               | USAC48W*       | 0-400/460                | 9.8 x 7.55 x 7.25         | 10.3                 | \$780      | DS-5EV          |
|               | 10               | 400/460                    | 16                             | 3               | USAC416S       | 0-400/460                | 14 x 10.5 x 9             | 22                   | \$1,553    | DS-5EV          |
|               | 10               | 400/460                    | 16                             | 3               | USAC416SW*     | 0-400/460                | 14 x 10.5 x 9             | 22                   | \$1,570    | DS-5EV          |
|               | 10               | 400/460                    | 16                             | 3               | USAC416S       | 0-400/460                | 14 x 10.5 x 9             | 22                   | \$1,553    | DS-5EV          |
|               | 10               | 400/460                    | 16                             | 3               | USAC416SW*     | 0-400/460                | 14 x 10.5 x 9             | 22                   | \$1,570    | DS-5EV          |

\*FDA approved finish (white cases only).

† All marks shown within this document are properties of their respective owners.



## USAC HYBRID DRIVES - ACCESSORIES



### Signal Isolator with Power Supply and Auto/Manual Switch Kit

**Catalog Number: USACSIACWAMSW**

The Signal Isolator with Power Supply provides an isolated interface between non-isolated signal sources and the drive. It is used to isolate, amplify and condition DC voltage and current signals from any source, such as tach-generators, transducers, PLC's and potentiometers. It provides an isolated input to control motor direction and an isolated 5 Volt DC power supply for potentiometer operation. In addition, it contains an isolated 50 ma 24 Volt DC power supply for transducers or auxiliary equipment. All input connections and power supplies are isolated from the AC line and motor wiring. The Auto/Manual Switch is designed for installation on the front cover of the drive. It is used with the USACPS to select a signal input from either the USACPS or the Main Speed Potentiometer of the drive.

### Forward-Stop-Reverse Switch Kit

**Catalog Number: USACFSRS**

The Forward-Stop-Reverse Switch Kit is designed for installation on the front cover of the inverters and provides electronic reversing.

### AC Line Filters

**Catalog Numbers: USACDARFAC24D, USACADRFAC27D, USACADRFAC3PS, USACADRFAC3PNS**

The Line Filters are used to suppress electrical interference to within acceptable levels as determined by the CE Council Directive 89/336/EEC relating to the Class A Industrial Standard. The USACDARFAC24D is rated 10 Amps at 230 Volts AC, the USACADRFAC27D is rated 22 Amps at 230 Volts AC and the USACADRFAC3PS is rated 10 Amps at 460 VAC.

**Note:** Suffix "NS" indicates line filter must be used without the Power On/Off Switch Kit.

### Liquidtight Fittings

**Catalog Number: USACADLTF**

The fittings are designed to provide a liquidtight seal when using cables to wire the drive.

### Option List Prices:

Add electronics drive and required option list prices, then use applicable multiplier to calculate net price.

| Options                                                                               | Catalog Number | List Price | Discount Symbol |
|---------------------------------------------------------------------------------------|----------------|------------|-----------------|
| USAC: Signal Isolator (Installs inside all USAC controls)                             | USACSIAC       | \$81       | DS-5EV          |
| USAC: Signal Isolator with Auto/Manual Switch Kit (Installs inside all USAC controls) | USACSIACWAMSW  | \$114      | DS-5EV          |
| USAC: Forward/Stop/Reverse Switch Kit                                                 | USACFSRS       | \$34       | DS-5EV          |
| USAC: Auto/Manual Switch Kit                                                          | USACAMS        | \$34       | DS-5EV          |
| USAC/USAD-24D: Power On/Off Switch Kit                                                | USACAD24DOOS   | \$32       | DS-5EV          |
| USAC/USAD-27D: Power On/Off Switch Kit (Also for -29 1P)                              | USACAD27DOOS   | \$54       | DS-5EV          |
| USAC/USAD: 3 Phase Power On/Off Switch Kit (Installs inside -29, -45, -48)            | USACAD3POOS    | \$69       | DS-5EV          |
| USAC/USAD-24D: CE AC Line Filter (Class A) (Factory installed only)                   | USACDARFAC24D  | \$42       | DS-5EV          |
| USAC/USAD-27D: CE AC Line Filter (Class A) (Factory installed only)                   | USACADRFAC27D  | \$49       | DS-5EV          |
| USAC/USAD: CE 3 phase AC Line Filter (Class A) (Factory installed only)               | USACADRFAC3PS  | \$118      | DS-5EV          |
| USAC/USDA: CE 3 phase AC Line Filter (Class A) (Factory installed only)               | USACADRFAC3PNS | \$118      | DS-5EV          |
| USAC/USAD: Liquidtight Fittings, 3 x 0.5", 1 x 0.75"                                  | USACADLTF      | \$46       | DS-5EV          |

† All marks shown within this document are properties of their respective owners.



## USVF HYBRID DRIVES - CHASSIS / IP20

The USVF Hybrid drives are a member of the ACCU-SERIES family of variable speed products. The USVF Series of Adjustable Frequency Drives consist of eleven inverter models rated for 0.25 to 5 horsepower motors. These chassis / IP20 drives are ideal for mounting in control panels where digital programming and displays are not required. Hybrid drives are a digital drive with an analog interface. A 5 kΩ Main Speed Potentiometer and Trimpot Adjustment Tool are also included.

### Voltage and Power Range:

- 1-Phase, 115 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.25 - 1.5 HP
- 1-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.25 - 2 HP
- 3-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.5 - 3 HP
- 3-Phase, 400/460 VAC Input  
3-Phase, 0 - 400/460 VAC Output  
1 - 5 HP



### Chassis / IP20, 1-Phase and 3-Phase Input, 3-Phase Output

| Motor Voltage   | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Phase (Ø) Input | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) H x W x L | Approx. Weight (lbs) | List Price | Discount Symbol |
|-----------------|------------------|----------------------------|--------------------------------|-----------------|----------------|--------------------------|---------------------------|----------------------|------------|-----------------|
| 115-208/230 VAC | 0.25             | 115                        | 1.5                            | 1               | USVF22D*       | 0-208/230                | 2.75 x 3.9 x 4.3          | 1.3                  | \$225      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 |                |                          |                           |                      |            |                 |
|                 | 0.5              | 115                        | 2.4                            | 1               | USVF23D*       | 0-208/230                | 2.75 x 3.9 x 4.3          | 1.3                  | \$247      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 |                |                          |                           |                      |            |                 |
|                 | 1                | 115                        | 4.0                            | 1               | USVF24D*       | 0-208/230                | 5 x 4.7 x 4.3             | 2.2                  | \$300      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 |                |                          |                           |                      |            |                 |
|                 | 1.5              | 115                        | 5.5                            | 1               | USVF26D*       | 0-208/230                | 5 x 4.7 x 4.3             | 2.9                  | \$388      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 |                |                          |                           |                      |            |                 |
| 208/230         | 2                | 208/230                    | 6.7                            | 1               | USVF27         | 0-208/230                | 4.45 x 4.7 x 7.5          | 4.1                  | \$462      | DS-5EV          |
|                 |                  |                            |                                | 3               |                |                          |                           |                      |            |                 |
|                 | 2                | 208/230                    | 6.7                            | 1               | USVF29         | 0-208/230                | 4.45 x 4.7 x 7.5          | 4.6                  | \$495      | DS-5EV          |
|                 |                  |                            |                                | 3               |                |                          |                           |                      |            |                 |
|                 | 3                | 208/230                    | 9.0                            | 3               |                |                          |                           |                      |            |                 |
|                 |                  |                            |                                |                 |                |                          |                           |                      |            |                 |

### Chassis / IP20, 3-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Phase (Ø) Input | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) H x W x L | Approx. Weight (lbs) | List Price | Discount Symbol |
|---------------|------------------|----------------------------|--------------------------------|-----------------|----------------|--------------------------|---------------------------|----------------------|------------|-----------------|
| 208/230 VAC   | 0.5              | 208/230                    | 2.4                            | 3               | USVF23P        | 0-208/230                | 2.75 x 3.9 x 4.3          | 1.1                  | \$252      | DS-5EV          |
|               | 1                | 208/230                    | 4.0                            | 3               | USVF24P        | 0-208/230                | 5 x 4.7 x 4.3             | 2.2                  | \$296      | DS-5EV          |
| 400/460 VAC   | 1                | 400/460                    | 2.0                            | 3               | USVF42**       | 0-400/460                | 2.75 x 4.1 x 9.31         | 2.8                  | \$452      | DS-5EV          |
|               | 3                | 400/460                    | 4.6                            | 3               | USVF45**       | 0-400/460                | 4.45 x 4.7 x 8.75         | 4.1                  | \$540      | DS-5EV          |
|               | 5                | 400/460                    | 8.3                            | 3               | USVF48**       | 0-400/460                | 4.45 x 4.7 x 8.75         | 4.6                  | \$686      | DS-5EV          |

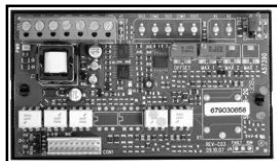
\*Catalog Numbers USVF-22D, 23D, 24D and 26D are available in single voltage AC line input (115 or 208/230 Volts AC) and also contain a built-in Motor Filter to eliminate winding and bearing failures.

\*\*Contains Signal Isolator with Run/Fault Relay.





## USVF HYBRID DRIVES - ACCESSORIES



### Signal Isolator with Run/Fault Relay

**Catalog Number: USVFSIVFR2G**

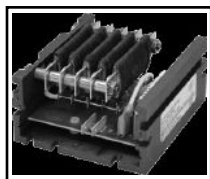
The Signal Isolator with Run/Fault Relay is used to isolate, amplify, and condition DC voltage and current signals from any source (power supplies, motors, tach-generators, transducers, and potentiometers). It also provides isolated inputs to control motor direction and an isolated power supply for transducer or potentiometer operation. All input connections are isolated from the AC line and motor wiring. The USVFSIVFR2G installs easily onto the side of the drive with the mounting base and two screws (provided). An adapter bracket is provided for use with 1/2 HP model drives. The USVFSIVFR2G is supplied with a finger-safe panel, which may be used with the enclosure cover to close the unused exposed area of the USVFSIVFR2G between Terminal Blocks TB1 and TB2.



### Multi-Speed Board

**Catalog Number: USVFACMSB**

The USVF Multi-Speed Board (MSB) provides four user selectable preset speeds to control a motor connected to the USVF Adjustable Frequency Drive. The motor speed for each preset is adjustable via trimpot settings which can be fine tuned by using the Hi-Lo range jumpers. Motor direction is set by the position of Jumper R/F (reverse/forward) which is provided for each preset. Connections to the MSB are made with a barrier terminal block. The MSB mounts onto the side of the USVF.



### Dynamic Brake Module

**Catalog Number: USVFDBVF**

The Dynamic Brake Module is a transistor controlled dynamic brake. It increases the standard braking torque of the USVF from 25% to over 100%. It is designed for all 230 VAC output models.



### Knob and Dial Kits

**Catalog Number: USVFKDL (Large) and USVFKDS (Small)**

Two Knob/Dial Kits are available. Both contain black knobs with silver inserts. Dial Plates are 0.040" aluminum with 3/8" mounting hole. Dimensions (L x W approx.): large dial plate: 2.25" x 2.06", small dial plate: 1.62" x 1.50".

### Option List Prices:

Add electronics drive and required option list prices, then use applicable multiplier to calculate net price.

| Options                                                                                                                        | Catalog Number | List Price | Discount Symbol |
|--------------------------------------------------------------------------------------------------------------------------------|----------------|------------|-----------------|
| Signal isolator with Run/Fault Relay (Installs on end of USVF)                                                                 | USVFSIVFR2G    | \$80       | DS-5EV          |
| Signal Isolator with Run/Fault Relay (Installs on end of USVF)                                                                 | USVFSIVFR3G    | \$80       | DS-5EV          |
| Multi-Speed Board (Installs on end of USVF)                                                                                    | USVFACMSB      | \$72       | DS-5EV          |
| Dynamic Braking Module (for single phase drives only)                                                                          | USVFDBVF       | \$265      | DS-5EV          |
| Input/Output Module (Installs on end of USVF)                                                                                  | USVFIOVF       | \$112      | DS-5EV          |
| Small Knob and Dial Kit. Black knob with silver insert. Dial Plate: 0.04" aluminum with 3/8" mounting hole, 1.62" L X 1.5" W.  | USVFKDS        | \$11       | DS-5EV          |
| Large Knob and Dial Kit. Black knob with silver insert. Dial Plate: 0.04" aluminum with 3/8" mounting hole, 2.25" L X 2.06" W. | USVFKDL        | \$12       | DS-5EV          |

† All marks shown within this document are properties of their respective owners.



## USAD DIGITAL DRIVES - NEMA 4X / IP65

The USAD Digital drives are a member of the ACCU-SERIES family of variable speed products. The USAD Series of Digital Adjustable Frequency Drives consist of fourteen inverter models rated for 1-5 horsepower motors. These drives are housed in heavy duty NEMA 4X / IP65 die-cast aluminum washdown/watertight enclosures for indoor or outdoor use.

### Voltage and Power Range:

- 1-Phase, 115 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.5 - 1.5 HP
- 1-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
0.5 - 2.0 HP
- 3-Phase, 208/230 VAC Input  
3-Phase, 0 - 208/230 VAC Output  
3 - 5 HP
- 3-Phase, 400/460 VAC Input  
3-Phase, 0 - 400/460 VAC Output  
1 - 5 HP



### NEMA 4X / IP65, 1-Phase and 3-Phase Input, 3-Phase Output

| Motor Voltage   | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Phase (Ø) Input | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) HxWxD | Approx. Weight (lbs) | List Price | Discount Symbol |
|-----------------|------------------|----------------------------|--------------------------------|-----------------|----------------|--------------------------|-----------------------|----------------------|------------|-----------------|
| 115-208/230 VAC | 1                | 115                        | 3.6                            | 1               | USAD24D        | 0-208/230                | 9.53 x 5.51 x 5.86    | 5.9                  | \$545      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 | USAD24DW*      | 0-208/230                |                       |                      |            |                 |
|                 | 1                | 115                        | 3.6                            | 1               | USAD27D        | 0-208/230                | 9.8 x 7.55 x 7.25     | 10.3                 | \$760      | DS-5EV          |
|                 |                  | 208/230                    |                                |                 | USAD27DW*      | 0-208/230                |                       |                      |            |                 |
|                 | 1.5              | 115                        | 5.5                            | 1               | USAD29P        | 0-208/230                | 9.8 x 7.55 x 7.25     | 10.3                 | \$790      | DS-5EV          |
|                 | 2                | 208/230                    | 6.7                            |                 | USAD29PW*      | 0-208/230                |                       |                      |            |                 |
| 208/230 VAC     | 1.5              | 115                        | 5.5                            | 1               | USAD29         | 0-208/230                | 9.8 x 7.55 x 7.25     | 10.3                 | \$765      | DS-5EV          |
|                 | 2                | 208/230                    | 6.7                            |                 | USAD29W*       | 0-208/230                |                       |                      |            |                 |
|                 | 3                | 208/230                    | 9.0                            | 1               | USAD42         | 0-400/460**              | 9.53 x 5.51 x 5.86    | 5.9                  | \$625      | DS-5EV          |
|                 |                  |                            | 9.0                            | 3               | USAD42W*       | 0-400/460**              |                       |                      |            |                 |
|                 | 2                | 208/230                    | 6.7                            | 1               | USAD45         | 0-400/460**              | 9.8 x 7.55 x 7.25     | 10.3                 | \$795      | DS-5EV          |
|                 | 3                | 208/230                    | 9.0                            | 3               | USAD45W*       | 0-400/460**              |                       |                      |            |                 |

\*FDA approved finish (white cases only).

### NEMA 4X / IP65, 3-Phase Input, 3-Phase Output

| Motor Voltage | Nominal Motor HP | AC Line Voltage (50/60 Hz) | Max. Load Current (Amps/Phase) | Phase (Ø) Input | Catalog Number | Voltage Range (Volts AC) | Dimensions (in) HxWxD | Approx. Weight (lbs) | List Price | Discount Symbol |
|---------------|------------------|----------------------------|--------------------------------|-----------------|----------------|--------------------------|-----------------------|----------------------|------------|-----------------|
| 400/460 VAC   | 1                | 400/460                    | 2.0                            | 3               | USAD42         | 0-400/460**              | 9.53 x 5.51 x 5.86    | 5.9                  | \$625      | DS-5EV          |
|               | 1                | 400/460                    | 2.0                            | 3               | USAD42W*       | 0-400/460**              |                       |                      |            |                 |
|               | 3                | 400/460                    | 5.5                            | 3               | USAD45         | 0-400/460**              | 9.8 x 7.55 x 7.25     | 10.3                 | \$795      | DS-5EV          |
|               | 3                | 400/460                    | 5.5                            | 3               | USAD45W*       | 0-400/460**              |                       |                      |            |                 |
|               | 5                | 400/460                    | 8.3                            | 3               | USAD48         | 0-400/460**              | 9.8 x 7.55 x 7.25     | 10.3                 | \$830      | DS-5EV          |
|               | 5                | 400/460                    | 8.3                            | 3               | USAD48W*       | 0-400/460**              |                       |                      |            |                 |

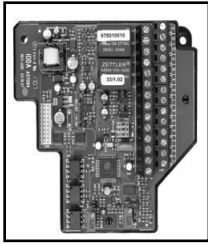
\*FDA approved finish (white cases only).

\*\*400/460 VAC models are 0-400 Volts AC for 50 Hz motor operation and 0-460 Volts AC for 60 Hz motor operation.

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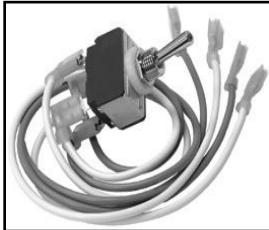


## USAD DIGITAL DRIVES - ACCESSORIES



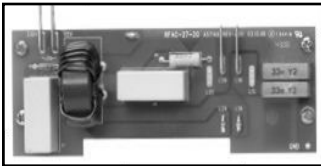
### Input/Output Multi-Function Board Catalog Number: USADIODA

The Input/Output Multi-Function Board provides a variety of functions which include preset frequency, up/down frequency control, signal isolation, isolated output voltage for controlling auxiliary devices, output relay contacts, and open collector outputs. The USADIODA mounts on the drive's PC board with two snap-ins (located on the bottom of the mounting base) and two screws (provided). All of the USADIODA inputs and outputs are isolated from the AC line.



### Power On/Off Switch Kit Catalog Numbers: USACAD24DOOS, USACAD27DOOS and USACAD3POOS

The Power On/Off Switch Kit is designed to provide a positive AC line power disconnect. It can be installed in lieu of, or in addition to, the factory installed Start/Stop Switch assembly. For Catalog Numbers USAD24D, USAD27D, the switch is double pole, which is used to disconnect both AC line wires. If only one AC line is to be disconnected, a single pole can be used. Refer to local electrical codes that apply. For Catalog Numbers USAD29, USAD45, USAD48, the switch is triple pole, which is used to disconnect all three AC line wires.



### AC Line Filters Catalog Numbers: USACDARFAC24D, USACADRFAC27D, USACADRFAC3PS and USACADRFAC3PNS

The Line Filters are used to suppress electrical interference to within acceptable levels as determined by the CE Council Directive 89/336/EEC relating to the Class A Industrial Standard. The USACDARFAC24D is rated 10 Amps at 230 Volts AC, the USACADRFAC27D is rated 22 Amps at 230 Volts AC and the USACADRFAC3PS is rated 10 Amps at 460 VAC.

**Note:** Suffix "NS" indicates line filter must be used without the Power On/Off Switch Kit.



### Liquidtight Fittings Catalog Number: USACADLTF

The fittings are designed to provide a liquidtight seal when using cables to wire the drive.

### Option List Prices:

Add electronics drive and required option list prices, then use applicable multiplier to calculate net price.

| Options                                                                      | Catalog Number | List Price | Discount Symbol |
|------------------------------------------------------------------------------|----------------|------------|-----------------|
| Input/Output Module (for all Models)                                         | USADIODA       | \$160      | DS-5EV          |
| 3 phase Power On/Off Switch Kit (For use with -24P & -42 with no filter)     | USAD3POOS      | \$54       | DS-5EV          |
| 3 phase Power On/Off Switch Kit (For use with -24P & -42 with RFI filter)    | USAD3PFOOS     | \$54       | DS-5EV          |
| CE 3 phase AC Line Filter (Class A) (Factory installed only with -24P & -42) | USADFDA3P      | \$93       | DS-5EV          |
| USAC/USAD-24D: Power On/Off Switch Kit                                       | USACAD24DOOS   | \$32       | DS-5EV          |
| USAC/USAD-27D: Power On/Off Switch Kit (Also for -29 1P)                     | USACAD27DOOS   | \$54       | DS-5EV          |
| USAC/USAD: 3 Phase Power On/Off Switch Kit (Installs inside -29, -45, -48)   | USACAD3POOS    | \$69       | DS-5EV          |
| USAC/USAD-24D: CE AC Line Filter (Class A) (Factory installed only)          | USACDARFAC24D  | \$42       | DS-5EV          |
| USAC/USAD-27D: CE AC Line Filter (Class A) (Factory installed only)          | USACADRFAC27D  | \$49       | DS-5EV          |
| USAC/USAD: CE 3 phase AC Line Filter (Class A) (Factory installed only)      | USACADRFAC3PS  | \$118      | DS-5EV          |
| USAC/USDA: CE 3 phase AC Line Filter (Class A) (Factory installed only)      | USACADRFAC3PNS | \$118      | DS-5EV          |
| USAC/USAD: Liquid Tight Fittings, 3 x 0.5", 1 x 0.75"                        | USACADLTF      | \$46       | DS-5EV          |



**WE BUILD MORE THAN MOTORS.**

**WE BUILD  
RELIABILITY.**



## Variable Frequency Hybrid Drive

- Off-the-shelf digital AC drive
- No programming or commissioning required
- Easy to install
- IP20, NEMA 1/IP20 & 50, and NEMA 4X/IP65
- In stock, from basic enclosures to an analog interface



# Variable Frequency Drive Motors

For inverter powered applications having constant or variable torque requirements



**Horsepower:** 1/4 – 350 HP

**Phase:** Three Phase

**RPM:** 1200, 1800 and 3600 RPM

**Voltage:** 230/460, 460 and 575

**Speed Range:**

- 20:1 (3-60 Hz) Variable Torque/5:1 (12-60 Hz) Constant Torque
- 20:1 (3-60 Hz) Constant Torque
- 5000:1 Constant Torque Speed Range with ACCU-Torq® Motors

**Enclosure:**

- Open Dripproof (ODP)
- Totally Enclosed Blower Cooled (TEBC)
- Totally Enclosed Fan Cooled (TEFC)
- Totally Enclosed Non-Ventilated (TENV)

**Mounting:** Footed and C-Face

**Conversion Kits:**

Available on most ratings

- All Cast Iron Upgrade
- C&D Flanges
- Canopy Kits
- Brakes
- Encoders



**ACCU-Torq® Vector Motor**



## ACCU-Torq® Motors

Optimize your machine designs with the dynamic performance of ACCU-Torq® motors. If you need accurate positioning or precise speed control, but do not require the rapid acceleration dynamics of a servomotor, an encoder equipped ACCU-Torq® motor may be the best solution.

**ACCU-Torq® Motor Benefits:**

- Operation from Zero to Base Speed With Vector Drives
- Constant HP Operation to Twice Base Speed
- Continuous Duty at 40°C Ambient
- Shaft Grounding Ring Option on All Ratings

† All marks shown within this document are properties of their respective owners.

# ACCU-Torq® Totally Enclosed, Non-Ventilated (TENV) Vector Duty, C-Face, 5000:1 Constant Torque



UTNX

## APPLICATIONS:

Designed for inverter or vector applications where up to 5000:1 constant torque speed range is required. Typical applications include machine tools, material handling, packaging machines, test equipment, cranes and hoists, and other industrial machinery.

## FEATURES:

- Constant Torque Operation from Zero to Base Speed with Vector Drives
- Constant HP Operation to Twice Base Speed (Except Where Noted)
- Continuous Duty at 40°C Ambient
- (NEMA® Design-A)
- Class F Insulation
- Normally Closed Thermostats Standard (One Per Phase)
- Shaft Grounding Ring Option on All Ratings
- F1 Standard, Field Convertible to F2 for 180 Frame and Above
- Removable Base 180 Frame and Above
- Steel 56-140 Frame; Aluminum 180 Frame & Above
- Encoder and Brake Provision on All Ratings
- D-Flange Convertible Kit
- Three Year Warranty

| HP    | Base RPM | Max RPM | Voltage | Frame | Catalog Number | List    | Discount Symbol | "C" Dim. (inches) | Full Load Amps | Rated Torque lb.-in. | Ship Wt. (lbs.) |
|-------|----------|---------|---------|-------|----------------|---------|-----------------|-------------------|----------------|----------------------|-----------------|
| 1/4   | 1800     | 3600    | 230/460 | 56C   | UN14T2BC       | \$504   | DS-VST          | 13.0              | 1/0.5          | 8.4                  | 18              |
| 1/3   | 1800     | 3600    | 230/460 | 56C   | UN13T2BC       | \$528   | DS-VST          | 14.5              | 1.1/0.6        | 12.0                 | 18              |
| 1/2   | 1800     | 3600    | 230/460 | 56C   | UN12T2BC       | \$611   | DS-VST          | 14.5              | 1.5/0.8        | 18.0                 | 19              |
|       | 1800     | 3600    | 575     | 56C   | UN12T2GC       | \$671   | DS-VST          | 14.5              | 0.6            | 18.0                 | 19              |
| 1     | 1800     | 3600    | 230/460 | 143TC | UN1T2BC        | \$722   | DS-VST          | 14.6              | 3.2/1.6        | 36.0                 | 26              |
|       | 1800     | 3600    | 230/460 | 56C   | UN1T2BFC       | \$722   | DS-VST          | 14.5              | 3.2/1.6        | 36.0                 | 24              |
|       | 1800     | 3600    | 575     | 56C   | UN1T2GC        | \$842   | DS-VST          | 14.5              | 1.3            | 36.0                 | 24              |
|       | 1200     | 2400    | 230/460 | 145TC | UN1T3BC        | \$788   | DS-VST          | 14.6              | 3.7/1.8        | 55.2                 | 41              |
| 1 1/2 | 1800     | 3600    | 230/460 | 145TC | UN32T2BC       | \$819   | DS-VST          | 14.6              | 4.7/2.3        | 54.0                 | 41              |
| 2     | 1800     | 3600    | 230/460 | 145TC | UN2T2BC        | \$877   | DS-VST          | 15.6              | 5.6/2.8        | 72.0                 | 54              |
|       | 1800     | 3600    | 575     | 145TC | UN2T2GC        | \$877   | DS-VST          | 15.6              | 2.2            | 72.0                 | 54              |
|       | 1200     | 2400    | 230/460 | 184TC | UN2T3BC        | \$1,212 | DS-VST          | 16.8              | 6.2/3.1        | 108.0                | 75              |
| 3     | 1800     | 3600    | 230/460 | 182TC | UN3T2BC        | \$983   | DS-VST          | 16.0              | 10.1/5         | 106.8                | 65              |
|       | 1800     | 3600    | 575     | 182TC | UN3T2GC        | \$983   | DS-VST          | 16.0              | 4.1            | 106.8                | 65              |
|       | 1200     | 2400    | 230/460 | 213TC | UN3T3BC        | \$1,502 | DS-VST          | 18.5              | 9.1/4.5        | 160.8                | 116             |
| 5     | 1800     | 3600    | 230/460 | 184TC | UN5T2BC        | \$1,143 | DS-VST          | 16.8              | 13.9/7         | 177.6                | 83              |
|       | 1800     | 3600    | 575     | 184TC | UN5T2GC        | \$1,143 | DS-VST          | 16.8              | 5.6            | 177.6                | 83              |
|       | 1200     | 2400    | 230/460 | 215TC | UN5T3BC        | \$2,150 | DS-VST          | 20.0              | 16/8           | 267.6                | 149             |
| 7 1/2 | 1800     | 3600    | 230/460 | 213TC | UN7T2BC        | \$1,563 | DS-VST          | 20.0              | 18.7/9.3       | 266.4                | 135             |
|       | 1800     | 3600    | 575     | 213TC | UN7T2GC        | \$1,563 | DS-VST          | 20.0              | 7.4            | 266.4                | 135             |
|       | 1200     | 2400    | 230/460 | 254TC | UN7T3BC        | \$2,870 | DS-VST          | 25.3              | 19.8/9.9       | 398.4                | 211             |
| 10    | 1800     | 3600    | 230/460 | 215TC | UN10T2BC       | \$1,888 | DS-VST          | 23.0              | 25.3/12.7      | 355.2                | 178             |
|       | 1800     | 3600    | 575     | 215TC | UN10T2GC       | \$1,888 | DS-VST          | 23.0              | 10             | 355.2                | 144             |
|       | 1200     | 2400    | 230/460 | 256TC | UN10T3BC       | \$3,466 | DS-VST          | 25.3              | 25.3/12.7      | 540.0                | 266             |
| 15    | 1800     | 3600    | 230/460 | 254TC | UN15T2BC       | \$2,607 | DS-VST          | 26.3              | 36/17.8        | 530.4                | 255             |
|       | 1800     | 3600    | 575     | 254TC | UN15T2GC       | \$2,607 | DS-VST          | 26.3              | 14.2           | 530.4                | 255             |
| 20    | 1800     | 3600    | 230/460 | 256TC | UN20T2BC       | \$3,213 | DS-VST          | 26.3              | 50/24.8        | 706.8                | 266             |
|       | 1800     | 3600    | 575     | 256TC | UN20T2GC       | \$3,213 | DS-VST          | 26.3              | 19.8           | 706.8                | 266             |

† All marks shown within this document are properties of their respective owners.



# ACCU-Torq® Motor Accessories and Available Conversions

## NOTE:

- Pre-assembled encoder, brake and shaft grounding options on ACCU-Torq® motors – NO EXTRA ASSEMBLY CHARGE.
- Conversion parts discount symbol is the same as the parent item.

## CONVERSION OPTIONS:

- All brakes and encoders are compatible with all ACCU-Torq® motor ratings (Exceptions: only encoder model types AV56 and ST56 can be assembled with a brake).
- F2 mounting for 180 frame and larger (F1 standard)

## Encoders

- All encoders listed have Line-Driver Outputs and 1024 PPR
- Encoder cables not supplied by Nidec Motor Corporation®

| MAKE    | MODEL | BRGS | SENSOR   | DUTY         | CONNECTOR         | FRAME, SPEED RANGE AND ENCLOSURE TYPE |                            |                            |                            |                              |
|---------|-------|------|----------|--------------|-------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
|         |       |      |          |              |                   | 56-256<br>5000:1 CT<br>TENV           | 182-256<br>20:1 CT<br>TENV | 182-256<br>20:1 CT<br>TEFC | 182-447<br>20:1 CT<br>TEFC | 254-449<br>5000:1 CT<br>TEBC |
| AVTRON  | AV56* | NO   | MAGNETIC | HEAVY, BRAKE | 10-PIN INDUSTRIAL | \$1,600                               | \$1,600                    | -                          | -                          | \$1,600                      |
| DYNAPAR | ST56* | NO   | MAGNETIC | HEAVY, BRAKE | 10-PIN INDUSTRIAL | \$2,410                               | \$2,410                    | -                          | -                          | \$2,410                      |
| AVTRON  | AV32  | NO   | MAGNETIC | MILL         | MS 10-PIN         | \$1,125                               | \$1,125                    | \$1,125                    | \$1,125                    | \$1,125                      |
| AVTRON  | HS25A | YES  | OPTICAL  | LIGHT        | MS 10-PIN         | \$1,125                               | \$1,125                    | \$1,125                    | -                          | -                            |
| DYNAPAR | HS20  | YES  | OPTICAL  | LIGHT        | MS 10-PIN         | \$1,200                               | \$1,200                    | \$1,200                    | -                          | -                            |
| EPC     | 260   | YES  | OPTICAL  | LIGHT        | MS 10-PIN         | \$1,125                               | \$1,125                    | \$1,125                    | -                          | -                            |
| AVTRON  | HS35A | YES  | OPTICAL  | LIGHT        | MS 10-PIN         | -                                     | -                          | \$1,300                    | \$1,300                    | \$1,300                      |
| DYNAPAR | HS35R | YES  | OPTICAL  | LIGHT        | MS 10-PIN         | -                                     | -                          | \$1,530                    | \$1,530                    | \$1,530                      |
| EPC     | 25T   | YES  | OPTICAL  | MILL         | MS 10-PIN         | -                                     | -                          | \$1,300                    | \$1,300                    | \$1,300                      |

\* Required for brake mounting with encoder (TENV)



HS20 Encoder



HS25A Encoder



ST56 Encoder



260 Encoder



AV32 Encoder



AV56 Encoder

## Brakes

- Connections to brakes: flying leads in brake enclosure
- Brakes rated for holding only – not to be applied for stopping
- Universal mount – for vertical and horizontal mounted motors

| ENCL. | FRAME  | MAKE     | SERIES | LIST  | COIL VOLTS  | NOM STATIC TORQUE | ENCLOSURE           |
|-------|--------|----------|--------|-------|-------------|-------------------|---------------------|
| TENV  | 56-256 | Stearns® | 56,000 | \$766 | 115/208-230 | 6 lb-ft           | IP23, STEEL HOUSING |
|       |        | Stearns® | 56,000 | \$911 | 115/208-230 | 10 lb-ft          | IP23, STEEL HOUSING |
|       |        | Stearns® | 56,000 | \$766 | 208-230/460 | 6 lb-ft           | IP23, STEEL HOUSING |
|       |        | Stearns® | 56,000 | \$911 | 208-230/460 | 10 lb-ft          | IP23, STEEL HOUSING |
|       |        | Stearns® | 56,000 | \$766 | 575         | 6 lb-ft           | IP23, STEEL HOUSING |
|       |        | Stearns® | 56,000 | \$911 | 575         | 10 lb-ft          | IP23, STEEL HOUSING |



ACCU-Torq™  
Motor & Brake  
Configuration



ACCU-Torq™  
Motor & Encoder  
Configuration



ACCU-Torq™  
Motor, Encoder &  
Brake Configuration

## Shaft Grounding Ring

- Reduces potential bearings failures caused by induced shaft currents

| Make                 | List  |
|----------------------|-------|
| Shaft Grounding Ring | \$175 |

† All marks shown within this document are properties of their respective owners.





# ACCU-Torq® Totally Enclosed Blower Cooled (TEBC) & Totally Enclosed, Non-Ventilated (TENV) Vector Duty, 5000:1 Constant Torque



TCBI / TCNI

## APPLICATIONS:

For packaging machinery, extruders, winders, process lines, cranes & hoists, slitters or other inverter powered applications having constant torque requirements at or near zero speed. ACCU-Torq® TEBC motors are used in variable frequency drive applications requiring full rated torque at zero speed utilizing Closed- or Open-Loop (Sensorless Vector) controls. The cast iron construction makes this motor an ideal choice for process lines, chemical plants, paper mills or any other severe duty environment.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Premium Efficient
- Cast Iron Frame, Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- F-1 Standard, Field Convertible to F-2
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection
- Continuous Duty at 40°C Ambient
- Regreaseable Bearings, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 180-360 (TEBC Only)
- Double Shielded ODE Bearing 180-250 (TENV Only)
- Insulated Shaft ODE 400 Frame & Up
- Shaft Grounding Ring Standard on All Ratings
- Encoder Provisions on all ratings
- Normally Closed Thermostats (1 per Phase)
- Corro-Duty Construction (TEBC Only)
- Special Balance
- Double Dip & Bake with Extra Bracing
- Axial Constant Speed 230/460V Blower on TEBC
- Radial Blower and Brake Configurations available as E.T.O.
- Class H Insulation, 1.0 Service Factor
- Constant Torque Operation from Zero to Base Speed
- Constant power (HP) operation to 2 times base speed up to 250 frame & 1.5 times base speed above 250 frame
- Cast Iron Inner Bearing Caps (180 Frame & Up on TEBC)
- Cast Iron Drive End Inner Bearing Cap (180-250 on TENV)
- C-Face, Footed on 180-250 Frame
- Conversion Kits: C&D Flanges
- Three Year Limited Warranty

## Footed

| HP  | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List     | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-----|--------------------|---------|-------|-------------------|----------|--------------------|----------------------|------------------|-------------------|-------------------|-------|
| 3   | 1800(4000)         | 230/460 | 182TC | HN3T2BC           | \$1,213  | DS-VST             | 16.5                 | 100              | 89.5              | 9.1/4.5           | 28    |
|     | 1200(4000)         | 230/460 | 213TC | HN3T3BC           | \$2,151  | DS-VST             | 20.0                 | 160              | 89.5              | 8.8/4.4           | 28    |
| 5   | 1800(4000)         | 230/460 | 213TC | HN5T2BC           | \$1,604  | DS-VST             | 20.0                 | 160              | 89.5              | 16/8              | 28    |
|     | 1200(4000)         | 230/460 | 215TC | HN5T3BC           | \$2,821  | DS-VST             | 20.0                 | 175              | 89.5              | 15/8              | 28    |
| 7.5 | 1800(4000)         | 230/460 | 213TC | HN7T2BC           | \$1,907  | DS-VST             | 20.0                 | 160              | 91.7              | 22/11             | 28    |
|     | 1200(4000)         | 230/460 | 254TC | HN7T3BC           | \$3,428  | DS-VST             | 25.1                 | 300              | 91.0              | 20/10             | 28    |
| 10  | 1800(4000)         | 230/460 | 254TC | HN10T2BC          | \$2,628  | DS-VST             | 25.1                 | 300              | 91.7              | 28/14             | 28    |
|     | 1200(4000)         | 230/460 | 256TC | HN10T3BC          | \$4,023  | DS-VST             | 25.1                 | 340              | 91.0              | 27/14             | 28    |
|     | 1800(4000)         | 230/460 | 215TC | B10T2C            | \$2,569  | DS-VST             | 31.3                 | 280              | 91.7              | 26.5/13.9         | 8     |
|     | 1200(4000)         | 230/460 | 256TC | B10T3BC           | \$3,821  | DS-VST             | 36.2                 | 470              | 91.7              | 26.1/13           | 8     |
| 15  | 1800(4000)         | 230/460 | 254TC | B15T2C            | \$3,081  | DS-VST             | 36.2                 | 470              | 93.6              | 38/19             | 8     |
|     | 1200(4000)         | 230/460 | 284T  | B15T3B            | \$5,072  | DS-VST             | 39.4                 | 540              | 92.4              | 38/19.1           | 8     |
| 20  | 1800(4000)         | 230/460 | 256TC | B20T2C            | \$3,603  | DS-VST             | 36.2                 | 480              | 93.0              | 51/25.6           | 8     |
|     | 1200(4000)         | 230/460 | 286T  | B20T3B            | \$5,952  | DS-VST             | 39.4                 | 560              | 91.7              | 53/26.6           | 8     |
| 25  | 1800(4000)         | 230/460 | 284T  | B25T2B            | \$4,232  | DS-VST             | 39.4                 | 550              | 94.1              | 62/31             | 8     |
|     | 1200(3000)         | 230/460 | 324T  | B25T3B            | \$7,072  | DS-VST             | 44.6                 | 750              | 93.0              | 71/36             | 8     |
| 30  | 1800(4000)         | 230/460 | 286T  | B30T2B            | \$4,784  | DS-VST             | 39.4                 | 570              | 93.6              | 75/37             | 8     |
|     | 1200(3000)         | 230/460 | 326T  | B30T3B            | \$8,152  | DS-VST             | 44.6                 | 770              | 93.0              | 80/40             | 8     |
| 40  | 1800(3000)         | 230/460 | 324T  | B40T2B            | \$6,132  | DS-VST             | 44.6                 | 770              | 95.0              | 101/50            | 8     |
|     | 1200(3000)         | 230/460 | 364T  | B40T3B            | \$10,681 | DS-VST             | 46.5                 | 1010             | 93.6              | 97/48             | 8     |
| 50  | 1800(3000)         | 230/460 | 326T  | B50T2B            | \$7,285  | DS-VST             | 44.6                 | 790              | 95.0              | 116/58            | 8     |
|     | 1200(3000)         | 230/460 | 365T  | B50T3B            | \$12,131 | DS-VST             | 46.5                 | 1040             | 94.5              | 118/59            | 8     |
| 60  | 1800(3000)         | 230/460 | 364T  | B60T2B            | \$10,178 | DS-VST             | 46.5                 | 1020             | 95.4              | 137/69            | 8     |
|     | 1200(3000)         | 230/460 | 404T  | B60T3B            | \$14,207 | DS-VST             | 51.3                 | 1390             | 94.5              | 149/74            | 8     |
| 75  | 1800(3000)         | 230/460 | 365T  | B75T2B            | \$12,634 | DS-VST             | 46.5                 | 1060             | 95.4              | 182/91            | 8     |
|     | 1200(3000)         | 230/460 | 405T  | B75T3B            | \$16,525 | DS-VST             | 51.3                 | 1430             | 94.5              | 188/94            | 8     |
| 100 | 1800(3000)         | 230/460 | 405T  | B100T2B           | \$15,423 | DS-VST             | 51.3                 | 1410             | 95.4              | 225/113           | 8     |
|     | 1200(3000)         | 230/460 | 444T  | B100T3B           | \$22,259 | DS-VST             | 57.1                 | 1880             | 95.8              | 245/122           | 8     |
| 125 | 1800(3000)         | 460     | 444T  | B125T2C           | \$18,989 | DS-VST             | 57.1                 | 1870             | 95.8              | 164               | 8     |
| 150 | 1800(3000)         | 460     | 445T  | B150T2C           | \$22,284 | DS-VST             | 57.1                 | 1900             | 95.8              | 180               | 8     |
| 200 | 1800(3000)         | 460     | 447T  | B200T2C           | \$26,893 | DS-VST             | 60.6                 | 2230             | 96.5              | 240               | 8     |
| 250 | 1800(2000)         | 460     | 449T  | B250T2C           | \$30,505 | DS-VST             | 69.0                 | 2860             | 96.5              | 289               | 8     |
| 350 | 1800(2000)         | 460     | 449T  | B300T2C           | \$36,616 | DS-VST             | 69.0                 | 3020             | 96.8              | 327               | 8     |
|     | 1800(2000)         | 460     | 449T  | B350T2C           | \$41,585 | DS-VST             | 69.0                 | 3090             | 96.8              | 396               | 8     |

Note 8 230/460 Blower Voltage

Note 28 TENV Enclosure

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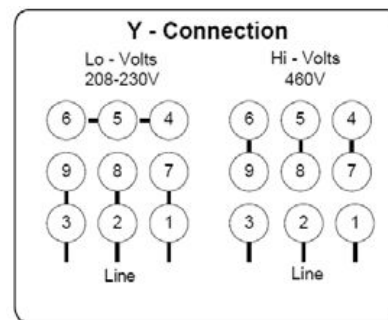
# Special Application, Vector Duty Blower (ACCU-Series)

| AXIAL BLOWER SPARE PARTS |                 |                  |                    |                             |                   |                 | RADIAL BLOWER SPARE PARTS |                  |                    |                             |                   |                 |
|--------------------------|-----------------|------------------|--------------------|-----------------------------|-------------------|-----------------|---------------------------|------------------|--------------------|-----------------------------|-------------------|-----------------|
| Motor Frame Size         | Blower Motor HP | Blower Motor RPM | Blower Motor Frame | Blower Motor Catalog Number | Spare Motor Price | Discount Symbol | Blower Motor HP           | Blower Motor RPM | Blower Motor Frame | Blower Motor Catalog Number | Spare Motor Price | Discount Symbol |
| 215TC                    | 1/3             | 1800             | 42CZ               | T13S2D42ZCR                 | \$266             | DS-3RST         | 1/3                       | 3600             | 56C                | T13S1ACR                    | \$279             | DS-3RST         |
| 254TC                    | 1/3             | 1800             | 42CZ               | T13S2D42ZCR                 | \$266             | DS-3RST         | 1/3                       | 3600             | 56C                | T13S1ACR                    | \$279             | DS-3RST         |
| 256TC                    | 1/3             | 1800             | 42CZ               | T13S2D42ZCR                 | \$266             | DS-3RST         | 1/3                       | 3600             | 56C                | T13S1ACR                    | \$279             | DS-3RST         |
| 284T                     | 1/2             | 1800             | 56C                | U12S2ACR                    | \$291             | DS-3RST         | 1 1/2                     | 3600             | 56C                | T32P1ACR                    | \$485             | DS-3RST         |
| 286T                     | 1/2             | 1800             | 56C                | U12S2ACR                    | \$291             | DS-3RST         | 1 1/2                     | 3600             | 56C                | T32P1ACR                    | \$485             | DS-3RST         |
| 324T                     | 1               | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         | 1 1/2                     | 3600             | 56C                | T32P1ACR                    | \$485             | DS-3RST         |
| 326T                     | 1               | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         | 1 1/2                     | 3600             | 56C                | T32P1ACR                    | \$485             | DS-3RST         |
| 364T                     | 1               | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         | 1 1/2                     | 3600             | 56C                | T32P1ACR                    | \$485             | DS-3RST         |
| 365T                     | 1               | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         | 1 1/2                     | 3600             | 56C                | T32P1ACR                    | \$485             | DS-3RST         |
| 405T                     | 2               | 1800             | 145TC              | U2P2DCR                     | \$578             | DS-3RST         | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |
| 444T                     | 2               | 1800             | 145TC              | U2P2DCR                     | \$578             | DS-3RST         | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |
| 445T                     | 2               | 1800             | 145TC              | U2P2DCR                     | \$578             | DS-3RST         | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |
| 447T                     | 2               | 1800             | 145TC              | U2P2DCR                     | \$578             | DS-3RST         | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |
| 449T                     | 3               | 1800             | 182TCH             | U3P2DKR                     | \$742             | DS-3AL          | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |
| 449T                     | 3               | 1800             | 182TCH             | U3P2DKR                     | \$742             | DS-3AL          | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |
| 449T                     | 3               | 1800             | 182TCH             | U3P2DKR                     | \$742             | DS-3AL          | 1                         | 1800             | 56C                | U1P2DFCR                    | \$425             | DS-3RST         |

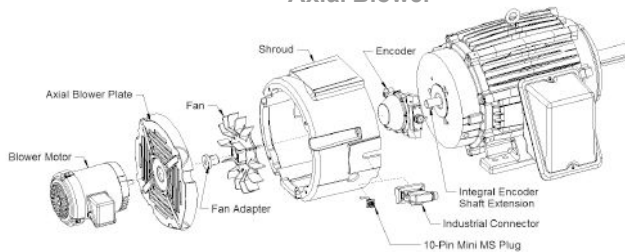
Encoders: Table by availability and list price on page 134.

Brakes: Table by nominal static torque, enclosure and list price on page 134.

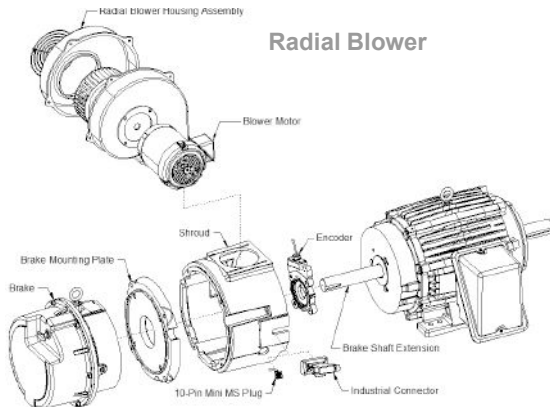
## 3-Phase Blower Connection Data



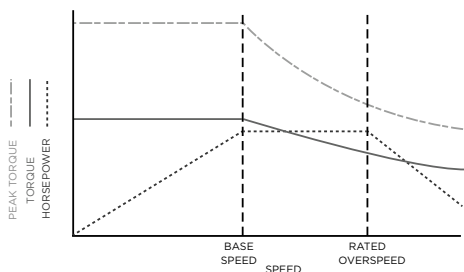
## Axial Blower



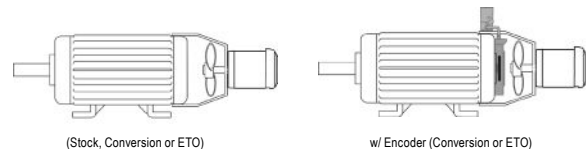
## Radial Blower



## Constant Torque and Horsepower Curves

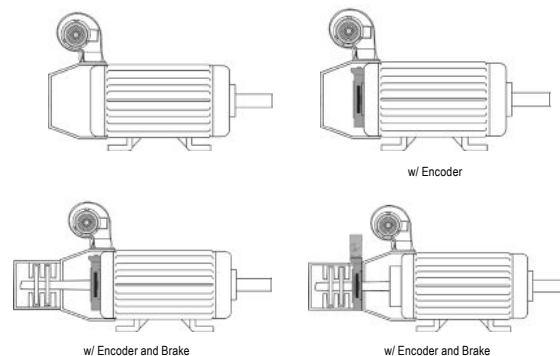


## Axial Blower Configurations:



## Radial Blower Configurations:

(All ETO Only)



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# Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT®, Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque 5:1 (12-60 Hertz) Speed Range Constant Torque

## APPLICATIONS:

For use on pumps, fans, blowers or other variable torque applications. Constant torque applications requiring 5:1 or less speed range and applications requiring a drive bypass.



UTI

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Removable Base 180 Frame & Larger
- Lifting Provisions 180 Frame & Larger
- Regreasable Shaft-End Bearing 180 Frame & Larger
- Sealed Bearings 56-140, Double Shielded Bearings 180-280
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Constant Horsepower To 90 Hertz
- Precision Balance (< 0.08 In/Sec Vibration)
- C-Face Footed 1-5 HP
- Brake Kits Available 56-210 Frame

| HP    | RPM<br>(Max Speed) | Voltage     | Frame | Catalog<br>Number | List    | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-------|--------------------|-------------|-------|-------------------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 1/3   | 1800(3600)         | 208-230/460 | 56C   | UN13V2BC          | \$399   | DS-VST             | 8.8                  | 26                | -                 | 1.4-1.4/0.71      | 28    |
|       | 1800(3600)         | 230/460     | 56C   | U13T2BCR          | \$420   | DS-VST             | 10.8                 | 22                | -                 | 1.6/0.8           | FTLS  |
| 1/2   | 1800(3600)         | 208-230/460 | 56C   | UN12V2AC          | \$444   | DS-VST             | 8.8                  | 26                | -                 | 2.0-2.1/1.1       | 28    |
|       | 1800(3600)         | 230/460     | 56C   | U12T2BCR          | \$463   | DS-VST             | 10.8                 | 78                | -                 | 2.3/1.1           | FTLS  |
|       | 1200(2400)         | 208-230/460 | 56C   | UN12V3BC          | \$578   | DS-VST             | 10.3                 | 33                | -                 | 2.3-2.4/1.2       | 28    |
| 3/4   | 1800(3600)         | 208-230/460 | 56C   | UN34V2AC          | \$442   | DS-VST             | 8.8                  | 26                | -                 | 2.8-2.7/1.3       | 28    |
|       | 1800(3600)         | 230/460     | 56C   | U34T2BCR          | \$497   | DS-VST             | 12.1                 | 32                | -                 | 2.7/1.3           | FTLS  |
|       | 1200(2400)         | 208-230/460 | 56C   | UN34V3BC          | \$622   | DS-VST             | 13.6                 | 32                | -                 | 3.1-3.0/1.5       | 28    |
| 1     | 1800(3600)         | 208-230/460 | 56C   | UN1V2AFC          | \$553   | DS-VST             | 11.8                 | 37                | -                 | 3.5-3.4/1.7       | 28    |
|       | 1800(3600)         | 230/460     | 143TC | U1V2BC            | \$569   | DS-VST             | 13.1                 | 45                | 85.5              | 2.9/1.5           |       |
|       | 1200(2400)         | 230/460     | 145TC | U1V3BC            | \$740   | DS-VST             | 13.1                 | 42                | 81.5              | 3.7/1.9           |       |
| 1 1/2 | 3600(7200)         | 230/460     | 143TC | U32V1BC           | \$646   | DS-VST             | 13.1                 | 37                | 84.0              | 3.9/1.9           |       |
|       | 1800(3600)         | 208-230/460 | 56C   | T32V2BFC          | \$607   | DS-VST             | 13.4                 | 34                | -                 | 5.1-5.0/2.5       |       |
|       | 1800(3600)         | 230/460     | 145TC | U32V2BC           | \$623   | DS-VST             | 13.1                 | 42                | 85.5              | 4.2/2.1           |       |
|       | 1200(2400)         | 230/460     | 182TC | U32V3BC           | \$864   | DS-VST             | 16.1                 | 60                | 87.5              | 4.6/2.3           |       |
| 2     | 3600 (7200)        | 230/460     | 145TC | U2V1BC            | \$675   | DS-VST             | 13.1                 | 40                | 86.5              | 4.9/2.4           |       |
|       | 1800(3600)         | 230/460     | 145TC | U2V2BC            | \$656   | DS-VST             | 13.1                 | 55                | 85.5              | 5.5/2.8           |       |
|       | 1200 (2400)        | 230/460     | 184TC | U2V3BC            | \$961   | DS-VST             | 16.9                 | 70                | 87.5              | 6/3               |       |
| 3     | 3600 (7200)        | 230/460     | 182TC | U3V1BC            | \$882   | DS-VST             | 16.1                 | 60                | 87.5              | 7.8/3.9           |       |
|       | 1800(3600)         | 230/460     | 182TC | U3V2BC            | \$780   | DS-VST             | 16.1                 | 75                | 88.5              | 8.2/4.1           |       |
|       | 1200(2400)         | 230/460     | 213TC | U3V3BC            | \$1,191 | DS-VST             | 18.6                 | 115               | 90.2              | 8.7/4.4           |       |
| 5     | 3600(7200)         | 230/460     | 184TC | U5V1BC            | \$1,106 | DS-VST             | 16.9                 | 75                | 88.5              | 12.1/6.1          |       |
|       | 1800(3600)         | 230/460     | 184TC | U5V2BC            | \$906   | DS-VST             | 16.9                 | 80                | 90.2              | 12.3/6.2          |       |
|       | 1200(2400)         | 230/460     | 215TC | U5V3BC            | \$1,705 | DS-VST             | 20.1                 | 145               | 90.2              | 14/7              |       |
| 7 1/2 | 3600(7200)         | 230/460     | 213T  | U7V1B             | \$1,371 | DS-VST             | 18.6                 | 105               | 91.0              | 17.8/8.9          |       |
|       | 1800(3600)         | 230/460     | 213T  | U7V2B             | \$1,240 | DS-VST             | 18.6                 | 115               | 91.0              | 18.3/9.2          |       |
|       | 1200(2400)         | 230/460     | 254T  | U7V3B             | \$2,276 | DS-VST             | 23.9                 | 212               | 91.0              | 18.6/9.3          |       |
| 10    | 3600(7200)         | 230/460     | 215T  | U10V1B            | \$1,607 | DS-VST             | 20.1                 | 125               | 91.0              | 23.5/11.8         |       |
|       | 1800(3600)         | 230/460     | 215T  | U10V2B            | \$1,497 | DS-VST             | 20.1                 | 140               | 91.7              | 23.8/11.9         |       |
|       | 1200(2400)         | 230/460     | 256T  | U10V3B            | \$2,749 | DS-VST             | 25.6                 | 250               | -                 | 24.4/12.2         |       |
| 15    | 3600(7200)         | 230/460     | 254T  | U15V1B            | \$2,299 | DS-VST             | 23.9                 | 202               | 90.2              | 35/17.7           |       |
|       | 1800(3600)         | 230/460     | 254T  | U15V2B            | \$2,068 | DS-VST             | 23.9                 | 240               | 93.0              | 37/18.4           |       |
| 20    | 3600(7200)         | 230/460     | 256T  | U20V1B            | \$2,846 | DS-VST             | 25.6                 | 222               | 90.2              | 47/23.4           |       |
|       | 1800(3600)         | 230/460     | 256T  | U20V2B            | \$2,548 | DS-VST             | 25.6                 | 262               | 93.0              | 47/23.7           |       |

Note 28 TENV Enclosure  
Note FTLS Footless

† All marks shown within this document are properties of their respective owners.



# Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty, Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque 5:1 (12-60 Hertz) Speed Range Constant Torque



CTI

## APPLICATIONS:

For use on pumps, fans, blowers or other variable torque applications. Constant torque applications requiring 5:1 or less speed range and applications requiring a drive bypass.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Special Balance
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings 140-360, Open On 400-440
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Constant Horsepower To 90 Hertz
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits (except 320-360)
- C-Face Footed 1-5 HP

| HP    | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List    | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-------|--------------------|---------|-------|-------------------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 1     | 1800(3600)         | 230/460 | 143TC | H1V2BC            | \$573   | DS-VST             | 12.6                 | 67                | 85.5              | 2.9/1.5           |       |
|       | 1200(2400)         | 230/460 | 145TC | H1V3BC            | \$779   | DS-VST             | 12.6                 | 72                | 81.5              | 3.7/1.9           |       |
| 1 1/2 | 3600(7200)         | 230/460 | 143TC | H32V1BC           | \$660   | DS-VST             | 12.6                 | 65                | 84.0              | 3.9/1.9           |       |
|       | 1800(3600)         | 230/460 | 145TC | H32V2BC           | \$635   | DS-VST             | 12.6                 | 72                | 85.5              | 4.4/2.2           |       |
|       | 1200(2400)         | 230/460 | 182TC | H32V3BC           | \$864   | DS-VST             | 16.8                 | 100               | 86.5              | 5/2.5             |       |
| 2     | 3600(7200)         | 230/460 | 145TC | H2V1BC            | \$784   | DS-VST             | 12.6                 | 72                | 86.5              | 4.9/2.4           |       |
|       | 1800(3600)         | 230/460 | 145TC | H2V2BC            | \$696   | DS-VST             | 12.6                 | 82                | 85.5              | 5.5/2.8           |       |
|       | 1200(2400)         | 230/460 | 184TC | H2V3BC            | \$961   | DS-VST             | 15.6                 | 110               | 87.5              | 6/3               |       |
| 3     | 3600(7200)         | 230/460 | 182TC | H3V1BC            | \$882   | DS-VST             | 16.0                 | 100               | 87.5              | 7.6/3.8           |       |
|       | 1800(3600)         | 230/460 | 182TC | H3V2BC            | \$780   | DS-VST             | 16.8                 | 100               | 89.5              | 7.8/3.9           |       |
|       | 1200(2400)         | 230/460 | 213TC | H3V3BC            | \$1,191 | DS-VST             | 19.1                 | 160               | 90.2              | 8.7/4.4           |       |
| 5     | 3600(7200)         | 230/460 | 184TC | H5V1BC            | \$1,106 | DS-VST             | 16.8                 | 110               | 88.5              | 12.2/6.1          |       |
|       | 1800(3600)         | 230/460 | 184TC | H5V2BC            | \$906   | DS-VST             | 16.8                 | 110               | 89.5              | 12.8/6.4          |       |
|       | 1200(2400)         | 230/460 | 215TC | H5V3BC            | \$1,705 | DS-VST             | 20.6                 | 175               | 90.2              | 14/7              |       |
| 7 1/2 | 3600(7200)         | 230/460 | 213T  | H7V1B             | \$1,371 | DS-VST             | 17.6                 | 160               | 91.0              | 17.8/8.9          |       |
|       | 1800(3600)         | 230/460 | 213T  | H7V2B             | \$1,240 | DS-VST             | 19.2                 | 167               | 91.0              | 18.4/9.2          |       |
|       | 1200(2400)         | 230/460 | 254T  | H7V3B             | \$2,276 | DS-VST             | 25.3                 | 300               | 91.0              | 18.6/9.3          |       |
| 10    | 3600(7200)         | 230/460 | 215T  | H10V1B            | \$1,607 | DS-VST             | 19.2                 | 175               | 91.0              | 23.2/11.6         |       |
|       | 1800(3600)         | 230/460 | 215T  | H10V2B            | \$1,497 | DS-VST             | 19.1                 | 175               | 91.7              | 23.8/11.9         |       |
|       | 1200(2400)         | 230/460 | 256T  | H10V3B            | \$2,749 | DS-VST             | 25.5                 | 352               | 91.7              | 24.5/12.3         |       |
| 15    | 3600(7200)         | 230/460 | 254T  | H15V1B            | \$2,299 | DS-VST             | 25.3                 | 300               | 90.2              | 35/17.7           |       |
|       | 1800(3600)         | 230/460 | 254T  | H15V2B            | \$2,068 | DS-VST             | 25.3                 | 300               | 92.4              | 37/18.4           |       |
|       | 1200(2400)         | 230/460 | 284T  | H15V3B            | \$3,831 | DS-VST             | 35.7                 | 380               | 91.7              | 37/18.7           |       |
| 20    | 3600(7200)         | 230/460 | 256T  | H20V1B            | \$2,846 | DS-VST             | 25.5                 | 362               | 90.2              | 47/23.4           |       |
|       | 1800(3600)         | 230/460 | 256T  | H20V2B            | \$2,548 | DS-VST             | 25.5                 | 372               | 93.0              | 47/23.7           |       |
|       | 1200(2400)         | 230/460 | 286T  | H20V3B            | \$4,640 | DS-VST             | 27.0                 | 410               | 91.7              | 49/24.5           |       |
| 25    | 3600(7200)         | 230/460 | 284TS | H25V1BS           | \$3,491 | DS-VST             | 25.6                 | 380               | 91.7              | 59/29.5           |       |
|       | 1800(3600)         | 230/460 | 284T  | H25V2B            | \$3,058 | DS-VST             | 27.0                 | 380               | 93.0              | 59/29.4           |       |
|       | 1200(2400)         | 230/460 | 324T  | H25V3B            | \$5,521 | DS-VST             | 30.6                 | 600               | 93.0              | 62/31             |       |
| 30    | 3600(5400)         | 230/460 | 286TS | H30V1BS           | \$4,094 | DS-VST             | 25.6                 | 400               | 91.7              | 69/35             |       |
|       | 1800(2700)         | 230/460 | 286T  | H30V2B            | \$3,566 | DS-VST             | 27.0                 | 440               | 93.6              | 69/34             |       |
|       | 1200(2400)         | 230     | 326T  | H30V3B            | \$6,515 | DS-VST             | 30.6                 | 675               | 93.0              | 74                |       |

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# Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Hostile Duty, Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque 5:1 (12-60 Hertz) Speed Range Constant Torque

(continued)

| HP  | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List     | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-----|--------------------|---------|-------|-------------------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 40  | 3600(5400)         | 230/460 | 324TS | H40V1BS           | \$5,290  | DS-VST             | 29.1                 | 560               | 92.4              | 91/46             |       |
|     | 1800(2700)         | 230/460 | 324T  | H40V2B            | \$4,656  | DS-VST             | 30.6                 | 600               | 94.1              | 92/46             |       |
|     | 1200(2400)         | 230/460 | 364T  | H40V3B            | \$8,775  | DS-VST             | 32.6                 | 906               | 94.1              | 93/46             |       |
| 50  | 3600(5400)         | 230/460 | 326TS | H50V1BS           | \$6,807  | DS-VST             | 29.1                 | 600               | 93.0              | 112/56            |       |
|     | 1800(2700)         | 230/460 | 326T  | H50V2B            | \$5,717  | DS-VST             | 30.6                 | 710               | 94.5              | 113/56            |       |
|     | 1200(2400)         | 230/460 | 365T  | H50V3B            | \$10,109 | DS-VST             | 32.6                 | 900               | 94.1              | 116/58            |       |
| 60  | 3600(5400)         | 230/460 | 364TS | H60V1BS           | \$9,086  | DS-VST             | 30.4                 | 790               | 93.6              | 136/68            |       |
|     | 1800(2700)         | 230/460 | 364T  | H60V2B            | \$8,312  | DS-VST             | 32.6                 | 825               | 95.0              | 138/69            |       |
|     | 1200(2400)         | 230/460 | 404T  | H60V3B            | \$11,909 | DS-VST             | 37.6                 | 1160              | 94.5              | 140/70            |       |
| 75  | 3600(4500)         | 230/460 | 365TS | H75V1BS           | \$11,411 | DS-VST             | 30.4                 | 830               | 93.6              | 167/83            |       |
|     | 1800(3600)         | 230/460 | 365T  | H75V2B            | \$10,572 | DS-VST             | 32.6                 | 225               | 95.0              | 168/84            |       |
|     | 1200(2400)         | 230/460 | 405T  | H75V3B            | \$14,042 | DS-VST             | 37.6                 | 1300              | 94.5              | 175/87            |       |
| 100 | 3600(4500)         | 230/460 | 405TS | H100V1BS          | \$15,290 | DS-VST             | 34.6                 | 1200              | 94.5              | 218/109           |       |
|     | 1800(3600)         | 230     | 405T  | H100V2B           | \$13,028 | DS-VST             | 37.6                 | 1250              | 95.4              | 225               |       |
|     | 1200(2400)         | 460     | 444T  | H100V3C           | \$19,226 | DS-VST             | 45.8                 | 1660              | 95.0              | 122               |       |
| 125 | 3600(4500)         | 460     | 444TS | H125V1CS          | \$19,027 | DS-VST             | 41.66                | 1550              | 95.8              | 142               |       |
|     | 1800(3600)         | 460     | 444T  | H125V2C           | \$16,217 | DS-VST             | 45.8                 | 1675              | 95.4              | 146               |       |
|     | 1200(2400)         | 460     | 445T  | H125V3C           | \$21,991 | DS-VST             | 45.8                 | 1750              | 95.4              | 151               |       |
| 150 | 3600(4500)         | 460     | 445TS | H150V1CS          | \$23,415 | DS-VST             | 41.66                | 1625              | 95.8              | 171               |       |
|     | 1800(3600)         | 460     | 445T  | H150V2C           | \$19,249 | DS-VST             | 45.4                 | 1800              | 95.8              | 171               |       |
|     | 1200(2400)         | 460     | 445T  | H150V3C           | \$25,259 | DS-VST             | 45.4                 | 1750              | 95.4              | 153               |       |
| 200 | 3600(4500)         | 460     | 447TS | H200V1CS          | \$29,591 | DS-VST             | 45.16                | 2100              | 96.2              | 217               |       |
|     | 1800(3600)         | 460     | 447T  | H200V2C           | \$23,452 | DS-VST             | 48.9                 | 2143              | 95.8              | 226               |       |

† All marks shown within this document are properties of their respective owners.



# Definite Purpose Three Phase, TEFC & TENV Hostile Duty, Inverter Duty 20:1 (3-60 Hertz) Speed Range Constant Torque

## APPLICATIONS:

For use with machine tools, material handling, packaging machines, test equipment, cranes and hoists, and applications having constant torque requirements.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Double Dip & Bake With Extra Bracing
- Class F Insulation, 1.0 Service Factor On PWM
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 40°C Ambient, NEMA® Design A Performance
- Regreasable Bearings, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360
- Cast Iron Inner Bearing Caps (280 Frame & Up)
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Thermostats (One Per Phase)
- Encoder provision standard on stock models
- Insulated shaft ODE 400 Frame & Up
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Drip Cover Kits (except 320-360)
- Shaft Grounding Standard 3HP & Up



CTI

| HP    | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List     | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-------|--------------------|---------|-------|-------------------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 1     | 1800(4000)         | 230/460 | 145TC | H1T2BC            | \$724    | DS-VST             | 12.6                 | 65                | 84.0              | 3.5/1.8           |       |
| 1 1/2 | 1800(4000)         | 230/460 | 145TC | H32T2BC           | \$791    | DS-VST             | 12.6                 | 70                | 85.5              | 4.6/2.3           |       |
| 2     | 1800(4000)         | 230/460 | 182TC | H2T2BC            | \$857    | DS-VST             | 15.2                 | 100               | 89.5              | 5.8/2.9           |       |
| 3     | 1800(4000)         | 230/460 | 182TC | HN3T2BC           | \$1,213  | DS-VST             | 16.5                 | 100               | 89.5              | 9.1/4.5           | 28    |
|       | 1200(4000)         | 230/460 | 213TC | HN3T3BC           | \$2,151  | DS-VST             | 20.0                 | 160               | 89.5              | 8.8/4.4           | 28    |
| 5     | 1800(4000)         | 230/460 | 184TC | H5T2BC            | \$1,086  | DS-VST             | 16.3                 | 110               | 89.5              | 13.4/6.7          |       |
|       | 1800(4000)         | 230/460 | 184T  | H5T2B             | \$985    | DS-VST             | 15.6                 | 110               | 89.5              | 13.4/6.7          |       |
|       | 1800(4000)         | 230/460 | 213TC | HN5T2BC           | \$1,604  | DS-VST             | 20.0                 | 160               | 89.5              | 16/8              | 28    |
|       | 1200(4000)         | 230/460 | 215TC | HN5T3BC           | \$2,821  | DS-VST             | 20.0                 | 175               | 89.5              | 15/8              | 28    |
| 7.5   | 1800(4000)         | 230/460 | 213TC | H7T2BC            | \$1,497  | DS-VST             | 19.9                 | 160               | 91.7              | 22/11             |       |
|       | 1800(4000)         | 230/460 | 213T  | H7T2B             | \$1,348  | DS-VST             | 19.2                 | 160               | 91.7              | 22/11             |       |
|       | 1800(4000)         | 230/460 | 213TC | HN7T2BC           | \$1,907  | DS-VST             | 20.0                 | 160               | 91.7              | 22/11             | 28    |
|       | 1200(4000)         | 230/460 | 254TC | H7T3BC            | \$2,675  | DS-VST             | 26.1                 | 300               | 91.0              | 22/11             |       |
|       | 1200(4000)         | 230/460 | 254TC | HN7T3BC           | \$3,428  | DS-VST             | 25.1                 | 300               | 91.0              | 20/10             | 28    |
| 10    | 1800(4000)         | 230/460 | 215TC | H10T2BC           | \$2,172  | DS-VST             | 19.9                 | 175               | 91.7              | 29/15             |       |
|       | 1800(4000)         | 230/460 | 215T  | H10T2B            | \$1,628  | DS-VST             | 19.2                 | 175               | 91.7              | 29/15             |       |
|       | 1800(4000)         | 230/460 | 254TC | HN10T2BC          | \$2,628  | DS-VST             | 25.1                 | 300               | 91.7              | 28/14             | 28    |
|       | 1200(4000)         | 230/460 | 256TC | H10T3BC           | \$3,189  | DS-VST             | 26.1                 | 340               | 91.0              | 27/14             |       |
|       | 1200(4000)         | 230/460 | 256TC | HN10T3BC          | \$4,023  | DS-VST             | 25.1                 | 340               | 91.0              | 27/14             | 28    |
| 15    | 1800(4000)         | 230/460 | 254TC | H15T2BC           | \$2,449  | DS-VST             | 25.9                 | 340               | 92.4              | 40/20             |       |
|       | 1800(4000)         | 230/460 | 254T  | H15T2B            | \$2,248  | DS-VST             | 25.4                 | 300               | 92.4              | 40/20             |       |
|       | 1800(4000)         | 230/460 | 254TC | HN15T2BC          | \$3,193  | DS-VST             | 25.1                 | 340               | 92.4              | 39/20             | 28    |
|       | 1200(4000)         | 230/460 | 284T  | H15T3B            | \$4,164  | DS-VST             | 27.0                 | 380               | 91.7              | 40/20             |       |
| 20    | 1800(4000)         | 230/460 | 256TC | H20T2BC           | \$3,253  | DS-VST             | 25.9                 | 340               | 93.0              | 54/27             |       |
|       | 1800(4000)         | 230/460 | 256T  | H20T2B            | \$2,770  | DS-VST             | 25.4                 | 375               | 93.0              | 54/27             |       |
|       | 1200(4000)         | 230/460 | 286T  | H20T3B            | \$5,044  | DS-VST             | 27.0                 | 410               | 91.7              | 56/28             |       |
| 25    | 1800(4000)         | 230/460 | 284T  | H25T2B            | \$3,324  | DS-VST             | 27.1                 | 380               | 93.6              | 65/33             |       |
|       | 1200(3000)         | 230/460 | 324T  | H25T3B            | \$6,001  | DS-VST             | 30.7                 | 600               | 93.0              | 76/38             |       |
| 30    | 1800(4000)         | 230/460 | 286T  | H30T2B            | \$3,876  | DS-VST             | 27.1                 | 440               | 93.6              | 78/39             |       |
|       | 1200(3000)         | 230/460 | 326T  | H30T3B            | \$7,081  | DS-VST             | 30.7                 | 625               | 93.0              | 84/42             |       |
| 40    | 1800(3000)         | 230/460 | 324T  | H40T2B            | \$5,061  | DS-VST             | 30.8                 | 600               | 94.1              | 107/54            |       |
|       | 1200(3000)         | 230/460 | 364T  | H40T3B            | \$9,538  | DS-VST             | 32.3                 | 740               | 94.1              | 101/50            |       |
| 50    | 1800(3000)         | 230/460 | 326T  | H50T2B            | \$6,214  | DS-VST             | 30.8                 | 710               | 94.5              | 122/61            |       |
|       | 1200(3000)         | 230/460 | 365T  | H50T3B            | \$10,988 | DS-VST             | 32.3                 | 910               | 94.1              | 124/62            |       |
| 60    | 1800(3000)         | 230/460 | 364T  | H60T2B            | \$9,035  | DS-VST             | 32.3                 | 825               | 95.0              | 145/72            |       |
|       | 1200(3000)         | 230/460 | 404T  | H60T3B            | \$12,945 | DS-VST             | 37.6                 | 1160              | 94.5              | 155/78            |       |

Note 28 TENV Enclosure

† All marks shown within this document are properties of their respective owners.



GEN. PURPOSE  
UNIMOUNT

GENERAL PURPOSE  
STEEL EDGE™

GENERAL PURPOSE  
HOSTILE DUTY

GENERAL PURPOSE  
CORRO-DUTY™

GENERAL PURPOSE  
841 PLUS™

GENERAL PURPOSE  
OPEN DRIPPROOF

GENERAL PURPOSE  
HAZARDOUS  
LOCATION

GENERAL PURPOSE  
AUTOMOTIVE DUTY

COOLING TOWER  
DUTY

HAZARDOUS  
LOCATION

C-FACE  
MOTORS

VARIABLE  
SPEED MOTORS  
AND DRIVES

# Definite Purpose Three Phase, TEFC & TENV Hostile Duty, Inverter Duty 20:1 (3-60 Hertz) Speed Range Constant Torque

(continued)

| HP  | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List     | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-----|--------------------|---------|-------|-------------------|----------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 75  | 1800(3000)         | 230/460 | 365T  | H75T2B            | \$11,491 | DS-VST             | 32.3                 | 830               | 95.4              | 191/96            |       |
|     | 1200(3000)         | 230/460 | 405T  | H75T3B            | \$15,263 | DS-VST             | 37.6                 | 1180              | 94.5              | 197/99            |       |
| 100 | 1800(3000)         | 230/460 | 405T  | H100T2B           | \$14,161 | DS-VST             | 37.7                 | 1250              | 95.4              | 237/119           | B     |
|     | 1200(3000)         | 230/460 | 444T  | H100T3B           | \$20,898 | DS-VST             | 45.4                 | 1660              | 95.0              | 258/129           |       |
| 125 | 1800(3000)         | 460     | 444T  | H125T2C           | \$17,628 | DS-VST             | 45.4                 | 1675              | 95.4              | 172               |       |
| 150 | 1800(3000)         | 460     | 445T  | H150T2C           | \$20,923 | DS-VST             | 45.4                 | 1800              | 95.8              | 189               |       |
| 200 | 1800(3000)         | 460     | 447T  | H200T2C           | \$23,452 | DS-VST             | 48.9                 | 2140              | 96.2              | 253               |       |
| 250 | 1800(2000)         | 460     | 449T  | C250T2C           | \$30,248 | DS-VST             | 55.1                 | 2410              | 96.2              | 303               | ETO   |
| 300 | 1800(2000)         | 460     | 449T  | C300T2C           | \$41,403 | DS-VST             | 55.1                 | 2410              | 96.2              | 343               | ETO   |
| 350 | 1800(2000)         | 460     | 449T  | C350T2C           | \$49,229 | DS-VST             | 55.1                 | 2410              | 96.2              | 417               | ETO   |

Note ETO Model available as ETO only

Note B NEMA Design B

## CONVERSION OPTIONS:

Pre-assembled encoders – NO EXTRA ASSEMBLY CHARGE.

### Encoders

- All encoders listed have Line-Driver Outputs and 1024 PPR
- Encoder cables not supplied by Nidec Motor Corporation®

|         |       |      |          |              |                      | FRAME, SPEED RANGE AND ENCLOSURE TYPE |                            |                            |                            |                              |
|---------|-------|------|----------|--------------|----------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| MAKE    | MODEL | BRGS | SENSOR   | DUTY         | CONNECTOR            | 56-256<br>5000:1 CT<br>TENV           | 182-256<br>20:1 CT<br>TENV | 182-256<br>20:1 CT<br>TEFC | 182-447<br>20:1 CT<br>TEFC | 254-449<br>5000:1 CT<br>TEBC |
| AVTRON  | AV56* | NO   | MAGNETIC | HEAVY, BRAKE | 10-PIN<br>INDUSTRIAL | \$1,600                               | \$1,600                    | -                          | -                          | \$1,600                      |
| DYNAPAR | ST56* | NO   | MAGNETIC | HEAVY, BRAKE | 10-PIN<br>INDUSTRIAL | \$2,410                               | \$2,410                    | -                          | -                          | \$2,410                      |
| AVTRON  | AV32  | NO   | MAGNETIC | MILL         | MS 10-PIN            | \$1,125                               | \$1,125                    | \$1,125                    | \$1,125                    | \$1,125                      |
| AVTRON  | HS25A | YES  | OPTICAL  | LIGHT        | MS 10-PIN            | \$1,125                               | \$1,125                    | \$1,125                    | -                          | -                            |
| DYNAPAR | HS20  | YES  | OPTICAL  | LIGHT        | MS 10-PIN            | \$1,200                               | \$1,200                    | \$1,200                    | -                          | -                            |
| EPC     | 260   | YES  | OPTICAL  | LIGHT        | MS 10-PIN            | \$1,125                               | \$1,125                    | \$1,125                    | -                          | -                            |
| AVTRON  | HS35A | YES  | OPTICAL  | LIGHT        | MS 10-PIN            | -                                     | -                          | \$1,300                    | \$1,300                    | \$1,300                      |
| DYNAPAR | HS35R | YES  | OPTICAL  | LIGHT        | MS 10-PIN            | -                                     | -                          | \$1,530                    | \$1,530                    | \$1,530                      |
| EPC     | 25T   | YES  | OPTICAL  | MILL         | MS 10-PIN            | -                                     | -                          | \$1,300                    | \$1,300                    | \$1,300                      |

\* Required for brake mounting with encoder (TENV)

### Brakes

- Connections to brakes: flying leads in brake enclosure
- Brakes rated for holding only – not to be applied for stopping
- Brakes only available on TENV enclosures

| ENCL. | FRAME   | MAKE     | SERIES | LIST  | COIL VOLTS  | NOM STATIC TORQUE | ENCLOSURE           |
|-------|---------|----------|--------|-------|-------------|-------------------|---------------------|
| TENV  | 182-256 | Stearns® | 56,000 | \$766 | 115/208-230 | 6 lb-ft           | IP23, STEEL HOUSING |
|       |         | Stearns® | 56,000 | \$911 | 115/208-230 | 10 lb-ft          | IP23, STEEL HOUSING |
|       |         | Stearns® | 56,000 | \$766 | 208-230/460 | 6 lb-ft           | IP23, STEEL HOUSING |
|       |         | Stearns® | 56,000 | \$911 | 208-230/460 | 10 lb-ft          | IP23, STEEL HOUSING |
|       |         | Stearns® | 56,000 | \$766 | 575         | 6 lb-ft           | IP23, STEEL HOUSING |
|       |         | Stearns® | 56,000 | \$911 | 575         | 10 lb-ft          | IP23, STEEL HOUSING |

† All marks shown within this document are properties of their respective owners.



# Definite Purpose Three Phase, Open Dripproof (ODP) Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque 5:1 (12-60 Hertz) Speed Range Constant Torque



DI, RI

## APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications.

## FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Rolled Steel Frame (140-320), Cast Iron Frame (360-440)
- Aluminum End Shields 140-250, Cast Iron End Shields 280-440
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Constant Horsepower To 90 Hertz
- Lifting Provisions (210 Frame & Up)
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings 140-400, Open On 440 Frame
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Insulation, 1.15 Service Factor On Sine Wave / 1.0 Service Factor On PWM
- Conversion Kits: Canopy Kits (140-320 Frame)
- For VFD Guidelines, Refer to Page viii

| HP    | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List    | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-------|--------------------|---------|-------|-------------------|---------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 1     | 1800(3600)         | 230/460 | 143T  | D1V2B             | \$525   | DS-VSO             | 12.8                 | 37                | 84.0              | 3.1/1.6           |       |
|       | 1200(2400)         | 230/460 | 145T  | D1V3B             | \$702   | DS-VSO             | 12.8                 | 40                | 80.0              | 3.7/1.8           |       |
| 1 1/2 | 1800(3600)         | 230/460 | 145T  | D32V2B            | \$550   | DS-VSO             | 12.8                 | 42                | 85.5              | 4.2/2.1           |       |
|       | 1200(2400)         | 230/460 | 182T  | D32V3B            | \$708   | DS-VSO             | 15.0                 | 50                | 85.5              | 5.3/2.6           |       |
| 2     | 1800(3600)         | 230/460 | 145T  | D2V2B             | \$604   | DS-VSO             | 12.8                 | 147               | 85.5              | 5.7/2.8           |       |
|       | 1200(2400)         | 230/460 | 184T  | D2V3B             | \$793   | DS-VSO             | 15.0                 | 60                | 86.5              | 6.3/3.2           |       |
| 3     | 1800(3600)         | 230/460 | 182T  | D3V2B             | \$642   | DS-VSO             | 15.0                 | 50                | 89.5              | 7.8/3.9           |       |
| 5     | 3600(7200)         | 230/460 | 182T  | D5V1B             | \$667   | DS-VSO             | 15.0                 | 50                | 87.5              | 12.2/6.1          |       |
|       | 1800(3600)         | 230/460 | 184T  | D5V2B             | \$691   | DS-VSO             | 15.0                 | 60                | 89.5              | 13/6.5            |       |
|       | 1200(2400)         | 230/460 | 215T  | D5V3B             | \$1,324 | DS-VSO             | 17.5                 | 104               | 88.5              | 14.4/7.2          |       |
| 7 1/2 | 3600(7200)         | 230/460 | 184T  | D7V1B             | \$1,038 | DS-VSO             | 15.0                 | 60                | 87.5              | 18.2/9.1          |       |
|       | 1800(3600)         | 230/460 | 213T  | D7V2B             | \$1,011 | DS-VSO             | 16.0                 | 94                | 91.0              | 18.5/9.3          |       |
|       | 1200(2400)         | 230/460 | 254T  | D7V3B             | \$1,679 | DS-VSO             | 22.6                 | 150               | 91.7              | 18.9/9.5          |       |
| 10    | 3600(7200)         | 230/460 | 213T  | D10V1B            | \$1,214 | DS-VSO             | 16.0                 | 94                | 90.2              | 24.3/12.2         |       |
|       | 1800(3600)         | 230/460 | 215T  | D10V2B            | \$1,231 | DS-VSO             | 17.5                 | 104               | 90.2              | 24.5/12.2         |       |
|       | 1200(2400)         | 230/460 | 256T  | D10V3B            | \$2,184 | DS-VSO             | 22.7                 | 160               | 91.7              | 25.1/12.6         |       |
| 15    | 3600(7200)         | 230/460 | 215T  | D15V1B            | \$1,669 | DS-VSO             | 17.5                 | 104               | 90.2              | 36/18             |       |
|       | 1800(3600)         | 230/460 | 254T  | D15V2B            | \$1,683 | DS-VSO             | 22.6                 | 162               | 92.4              | 37/18.6           |       |
|       | 1200(2400)         | 230/460 | 284T  | D15V3B            | \$2,788 | DS-VSO             | 24.9                 | 312               | 91.7              | 37/18.5           |       |
| 20    | 3600(7200)         | 230/460 | 254T  | D20V1B            | \$2,019 | DS-VSO             | 22.6                 | 162               | 91.0              | 46/23.2           |       |
|       | 1800(3600)         | 230/460 | 256T  | D20V2B            | \$2,158 | DS-VSO             | 22.7                 | 172               | 93.0              | 48/24             |       |
|       | 1200(2400)         | 230/460 | 286T  | D20V3B            | \$3,398 | DS-VSO             | 24.9                 | 337               | 91.7              | 49/24.4           |       |
| 25    | 3600(7200)         | 230/460 | 256T  | D25V1B            | \$2,640 | DS-VSO             | 22.7                 | 160               | 91.0              | 58/29.2           |       |
|       | 1800(3600)         | 230/460 | 284T  | D25V2B            | \$2,613 | DS-VSO             | 24.9                 | 162               | 93.6              | 58/29.2           |       |
|       | 1200(2400)         | 230/460 | 324T  | D25V3B            | \$3,732 | DS-VSO             | 27.3                 | 416               | 93.0              | 59/29.3           |       |
| 30    | 3600(5400)         | 230/460 | 284TS | D30V1BS           | \$3,033 | DS-VSO             | 23.5                 | 312               | 92.4              | 68/34             |       |
|       | 1800(2700)         | 230/460 | 286T  | D30V2B            | \$3,023 | DS-VSO             | 24.9                 | 350               | 94.1              | 69/34             |       |
|       | 1200(2400)         | 230/460 | 326T  | D30V3B            | \$4,173 | DS-VSO             | 27.3                 | 446               | 93.0              | 70/35             |       |
| 40    | 3600(5400)         | 230/460 | 286TS | D40V1BS           | \$3,315 | DS-VSO             | 23.5                 | 362               | 93.0              | 90/45             |       |
|       | 1800(2700)         | 230/460 | 324T  | D40V2B            | \$3,322 | DS-VSO             | 27.3                 | 731               | 94.1              | 91/46             |       |
|       | 1200(2400)         | 230/460 | 364T  | D40V3B            | \$6,654 | DS-VSO             | 28.7                 | 580               | 94.5              | 92/46             |       |
| 50    | 3600(5400)         | 230/460 | 324TS | D50V1BS           | \$3,729 | DS-VSO             | 25.8                 | 416               | 93.0              | 117/59            |       |
|       | 1800(2700)         | 230/460 | 326T  | D50V2B            | \$3,894 | DS-VSO             | 27.3                 | 611               | 94.1              | 114/57            |       |
|       | 1200(2400)         | 230/460 | 365T  | D50V3B            | \$7,492 | DS-VSO             | 29.7                 | 580               | 94.5              | 115/57            |       |
| 60    | 3600(5400)         | 230/460 | 326TS | D60V1BS           | \$5,005 | DS-VSO             | 25.8                 | 446               | 93.6              | 135/67            |       |
|       | 1800(2700)         | 230/460 | 364T  | D60V2B            | \$5,216 | DS-VSO             | 28.7                 | 580               | 95.0              | 138/69            |       |
|       | 1200(2400)         | 230/460 | 404T  | D60V3B            | \$8,631 | DS-VSO             | 32.6                 | 763               | 95.0              | 138/69            |       |

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# Definite Purpose Three Phase, Open Dripproof (ODP) Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque 5:1 (12-60 Hertz) Speed Range Constant Torque



DI, RI

(continued)

| HP  | RPM<br>(Max Speed) | Voltage | Frame | Catalog<br>Number | List  | Discount<br>Symbol | "C" Dim.<br>(inches) | Ship Wt.<br>(lbs) | Full Load<br>Eff. | Full Load<br>Amps | Notes |
|-----|--------------------|---------|-------|-------------------|-------|--------------------|----------------------|-------------------|-------------------|-------------------|-------|
| 75  | 3600(4500)         | 230/460 | 364TS | D75V1BS           | 6592  | DS-VSO             | 26.6                 | 580               | 94.1              | 171/85            |       |
|     | 1800(3600)         | 230/460 | 365T  | D75V2B            | 6176  | DS-VSO             | 29.7                 | 600               | 95.0              | 171/86            |       |
|     | 1200(2400)         | 230/460 | 405T  | D75V3B            | 9715  | DS-VSO             | 34.1                 | 800               | 94.5              | 172/86            |       |
| 100 | 3600(4500)         | 230/460 | 365TS | D100V1BS          | 7282  | DS-VSO             | 27.6                 | 600               | 94.1              | 224/112           |       |
|     | 1800(3600)         | 230/460 | 404T  | D100V2B           | 7360  | DS-VSO             | 32.6                 | 868               | 95.4              | 224/112           |       |
|     | 1200(2400)         | 460     | 444T  | D100V3C           | 11507 | DS-VSO             | 37.8                 | 1100              | 95.0              | 121               |       |
| 125 | 3600(4500)         | 460     | 404TS | D125V1CS          | 9490  | DS-VSO             | 29.6                 | 763               | 95.0              | 136               |       |
|     | 1800(3600)         | 460     | 405T  | D125V2C           | 9530  | DS-VSO             | 34.1                 | 813               | 95.4              | 140               |       |
| 150 | 3600(4500)         | 230/460 | 405TS | D150V1BS          | 11710 | DS-VSO             | 31.1                 | 800               | 94.5              | 327/164           |       |
|     | 1800(3600)         | 460     | 444T  | D150V2C           | 12460 | DS-VSO             | 37.8                 | 1118              | 95.8              | 165               |       |
|     | 1200(2400)         | 460     | 445T  | D150V3C           | 16294 | DS-VSO             | 39.8                 | 1200              | 95.4              | 190               |       |
| 200 | 1800(3600)         | 460     | 445T  | D200V2C           | 15572 | DS-VSO             | 39.8                 | 1200              | 95.8              | 231               |       |
| 250 | 1800(3600)         | 460     | 447T  | D250V2C           | 17605 | DS-VSO             | 43.3                 | 1700              | 96.2              | 285               |       |

† All marks shown within this document are properties of their respective owners.





# Brakemotors

For bulk material handling equipment, conveyor cranes and hoists



**Horsepower:** 1/3 – 20 HP

**Phase:** Three Phase

**RPM:** 1200 or 1800 RPM

**Voltage:** 208-230/460 60 Hertz 1.15  
Service Factor 190/380 50 Hertz 1.0  
Service Factor

**Mounting Options:**

Horizontal or Vertical position. Available in 3 configurations:

- Footed
- C-Face Footed
- C-Face Footless

**Enclosure:**

Totally Enclosed Fan Cooled (TEFC)

**Bearings:** Non-Regreasable oversized bearings

**Construction:**

IP55 Pressure Die-cast aluminum frame

**Impregnation:**

Vacuum Pressure Impregnation (VPI)

**Inverter Duty:**

Constant Torque 2:1 Variable Torque  
10:1 speed range

**Agency:**

UL<sup>®†</sup> Recognized and CSA<sup>®†</sup> Certified



## UNIMOUNT<sup>®</sup> Brakemotors

Fully assembled, totally enclosed fan cooled motor and brake premieres the key features of a U.S. MOTORS<sup>®</sup> brand UNIMOUNT<sup>®</sup> motor and a Stearns<sup>®†</sup> brake. Available in both footed and c-face footless ratings, the motor is designed for use on conveyors, machine tools, door operators, speed reducers or other applications that require stops and positive holds.

UNIMOUNT<sup>®</sup> Brakemotors are built to help extend the life of the motor. Each motor is built to include the ALLGUARD<sup>®</sup> motor quality system, including pulse resistant/abrasion wire and 100% solids polyester varnish. The 56 to 140 frames are made of rolled steel frames. The 180 frame is extruded aluminum alloy that helps improve heat dissipation for cool operation.

**Features Include:**

- Class F Insulation, Class B Rise at Full Load
- 40°C Ambient
- NEMA<sup>®</sup> Design B
- Double Shielded Bearings on 56 to 180 Frames
- Diagonally Split Oversized Conduit Box
- "CE" Mark on Nameplate of the 140 to 180 Frames
- Removable Base on 180 Frames
- Full 50 & 60 Hertz on Nameplate
- Full HP @ 50 Hertz
- Dual Voltage Ratings Suitable for Part Winding Start on Low Voltage



<sup>†</sup> All marks shown within this document are properties of their respective owners.

# UNIMOUNT® Brakemotor Totally Enclosed Fan Cooled (TEFC) Motor



## APPLICATIONS:

For use on conveyors, machine tools, door operators, speed reducers, or any application requiring quick stops and positive holds.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Aluminum Frame (180 Frame)
- Rolled Steel Frame (56-140 Frames)
- Full 50 & 60 Hertz Operating on Nameplate (3)
- 40°C Ambient, NEMA† Design B Performance On 60 Hertz Sine Wave Power
- Full HP @ 50 Hertz
- Double Shielded Bearings (180 Frame)
- Dual Voltage Ratings Suitable for Part Winding Start (PWS) on Low Voltage
- "CE" Mark on Nameplate (140-180 Frames)
- Lifting Provisions (180 Frame)

## Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/2   | 1800 | 208-230/460 | 56    | BMU12S2A       | \$1,011 | DS-3BMR         | 1.25 | 17.4              | 35             | 75.5           | 1.8-1.7/0.9    |        |
| 3/4   | 1800 | 208-230/460 | 56    | BMU34S2A       | \$1,182 | DS-3BMR         | 1.25 | 17.4              | 35             | 78.5           | 2.6-2.7/1.3    |        |
| 1     | 1800 | 208-230/460 | 143T  | BMU1P2D        | \$1,461 | DS-3BMR         | 1.25 | 17.4              | 35             | 85.5           | 3.1-3/1.5      |        |
|       | 1800 | 208-230/460 | 143T  | BMU1S2A        | \$1,328 | DS-3BMR         | 1.25 | 17.6              | 42             | 82.5           | 3.4-3.7/1.8    | NNP,LA |
| 1 1/2 | 1800 | 208-230/460 | 56    | BMU32P2D       | \$1,703 | DS-3BMR         | 1.25 | 17.4              | 35             | 86.5           | 4.5-4.3/2.1    |        |
|       | 1800 | 208-230/460 | 56    | BMU32S2A       | \$1,548 | DS-3BMR         | 1.25 | 17.4              | 35             | 81.5           | 4.7-4.7/2.3    | NNP,LA |
| 2     | 1800 | 208-230/460 | 145T  | BMU2P2D        | \$1,683 | DS-3BMR         | 1.25 | 17.4              | 35             | 86.5           | 5.9-5.7/2.8    |        |
|       | 1800 | 208-230/460 | 145T  | BMU2S2A        | \$1,530 | DS-3BMR         | 1.25 | 17.6              | 27             | 82.5           | 6.2-6.2/3.1    | NNP,LA |
| 3     | 1800 | 208-230/460 | 182T  | BMU3P2D        | \$2,277 | DS-3BMR         | 1.25 | 21.6              | 170            | 89.5           | 8.4-7.8/3.9    |        |
| 5     | 1800 | 208-230/460 | 184T  | BMU5P2D        | \$2,830 | DS-3BMR         | 1.25 | 22.3              | 85             | 90.2           | 13.6-12.3/6.2  |        |
|       | 1800 | 208-230/460 | 184T  | BMU5S2A        | \$1,573 | DS-3BMR         | 1.25 | 22.8              | 85             | 84.0           | 14.6-13.7/6.8  | NNP,LA |

## C-Face Footless

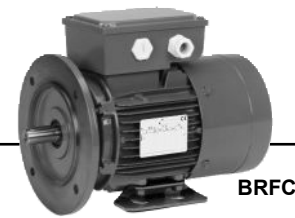
| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1/2   | 1800 | 208-230/460 | 56C   | BMU12S2ACR     | \$1,034 | DS-3BMR         | 1.25 | 15.6              | 30             | 75.5           | 1.8-1.7/0.9    |        |
| 3/4   | 1800 | 208-230/460 | 56C   | BMU34S2AFRCR   | \$1,213 | DS-3BMR         | 1.25 | 15.6              | 37             | 78.5           | 2.6-2.7/1.3    |        |
| 1     | 1800 | 208-230/460 | 143TC | BMU1P2DCR      | \$1,485 | DS-3BMR         | 1.25 | 17.9              | 35             | 85.5           | 3.1-3/1.5      |        |
|       | 1800 | 208-230/460 | 143TC | BMU1S2ACR      | \$1,350 | DS-3BMR         | 1.25 | 16.9              | 40             | 81.5           | 3.1-3.2/1.6    | NNP,LA |
|       | 1800 | 208-230/460 | 56C   | BMU1P2DFRCR    | \$1,540 | DS-3BMR         | 1.25 | 17.9              | 35             | 85.5           | 3.1-3/1.5      |        |
| 1 1/2 | 1800 | 208-230/460 | 145TC | BMU32P2DCR     | \$1,666 | DS-3BMR         | 1.25 | 17.9              | 35             | 86.5           | 4.5-4.3/2.1    |        |
|       | 1800 | 208-230/460 | 145TC | BMU32S2ACR     | \$1,515 | DS-3BMR         | 1.25 | 16.9              | 48             | 81.5           | 4.7-4.7/2.3    | NNP,LA |
|       | 1800 | 208-230/460 | 56C   | BMU32P2DFRCR   | \$1,728 | DS-3BMR         | 1.25 | 17.9              | 35             | 86.5           | 4.5-4.3/2.1    |        |
|       | 1800 | 208-230/460 | 56C   | BMU32S2AFRCR   | \$1,571 | DS-3BMR         | 1.25 | 16.9              | 38             | 81.5           | 4.7-4.7/2.3    | NNP,LA |
| 2     | 1800 | 208-230/460 | 145TC | BMU2P2DCR      | \$1,713 | DS-3BMR         | 1.25 | 17.9              | 35             | 86.5           | 5.9-5.7/2.8    |        |
|       | 1800 | 208-230/460 | 56C   | BMU2P2DFRCR    | \$1,771 | DS-3BMR         | 1.25 | 17.9              | 35             | 86.5           | 5.9-5.7/2.8    |        |
| 3     | 1800 | 208-230/460 | 182TC | BMU3P2DCR      | \$2,393 | DS-3BMR         | 1.25 | 21.6              | 70             | 89.5           | 8.4-7.8/3.9    |        |
| 5     | 1800 | 208-230/460 | 184TC | BMU5P2DCR      | \$2,954 | DS-3BMR         | 1.25 | 22.3              | 85             | 90.2           | 13.6-12.3/6.2  |        |

Note LA Limited Availability  
Note NNP Non-NEMA Premium Rating

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# Definite Purpose Totally Enclosed Fan Cooled (TEFC) Motor FCR Series Brakemotor



## APPLICATIONS:

For manual release, brake torque adjustments, external air gap adjustments and where high cycling is required.  
Bulk material handling equipment, conveyors, cranes and hoists.

## FEATURES:

- Class F Insulation
- Pressure Die Cast Aluminum Alloy Frame
- Non-Regreaseable, Oversized Ball Bearings (56-250 Frame)
- F0 Assembly Position (Conduit Box On Top)
- High Braking Torque (Heavy Duty)
- 180 Volt DC Brake Coil (Rectifier Included)
- 1.15 Service Factor @ 60 Hertz, 40°C Ambient, Continuous Duty
- Simple Manual Brake Release Option Available
- Air Gap Can Be Adjusted Easily
- Suitable For Use On The Following:
  - 60 Hertz 208-230/460 Volt - 9 Leads
  - 50 Hertz 380 Volt (1.0 Service Factor) - 9 Leads
  - 60 Hertz 575/600 Volt - 3 Leads (Only On Request)

## C-Face Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Full Load Eff. | Brake Torque (lb-ft) | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|-------------------|----------------|----------------|----------------|----------------------|-------|
| 1/3   | 1800 | 208-230/460 | 56C   | BR13S2AC3      | \$1,523 | DS-3LS          | 12.7              | 20             | 1.5-1.3/0.65   | 67.5           | 4.4                  |       |
| 1/2   | 1800 | 208-230/460 | 56C   | BR12S2AC3      | \$1,523 | DS-3LS          | 12.7              | 22             | 2.1-1.9/1.0    | 66.9           | 4.4                  |       |
| 3/4   | 1800 | 208-230/460 | 56C   | BR34S2AC3      | \$1,554 | DS-3LS          | 12.7              | 34             | 2.8-2.6/1.3    | 74.7           | 4.4                  |       |
| 1     | 1800 | 208-230/460 | 56C   | BR1S2AC3       | \$1,705 | DS-3LS          | 12.7              | 37             | 3.6-3.4/1.7    | 76.6           | 7.4                  | LA    |
| 1 1/2 | 1800 | 208-230/460 | 145TC | BR32S2AC3      | \$2,184 | DS-3LS          | 14.3              | 45             | 4.6-4.6/2.3    | 77.0           | 14.8                 | LA    |
| 2     | 1800 | 208-230/460 | 145TC | BR2S2AC3       | \$2,396 | DS-3LS          | 14.3              | 50             | 6.2-6.2/3.1    | 80.0           | 14.8                 | LA    |
| 3     | 1800 | 208-230/460 | 182TC | BR3S2AC3       | \$2,954 | DS-3LS          | 16.6              | 60             | 9.3-9.0/4.5    | 78.8           | 18.4                 | LA    |

## C-Face Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Full Load Eff. | Brake Torque (lb-ft) | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|-------------------|----------------|----------------|----------------|----------------------|-------|
| 1/3   | 1800 | 208-230/460 | 56C   | BR13S2ACR3     | \$1,453 | DS-3LS          | 12.7              | 20             | 1.5-1.3/0.65   | 67.5           | 4.4                  |       |
| 1/2   | 1800 | 208-230/460 | 56C   | BR12S2ACR3     | \$1,453 | DS-3LS          | 12.7              | 22             | 2.1-1.9/1.0    | 66.9           | 4.4                  |       |
| 3/4   | 1800 | 208-230/460 | 56C   | BR34S2ACR3     | \$1,488 | DS-3LS          | 12.7              | 34             | 2.8-2.6/1.3    | 74.7           | 4.4                  |       |
|       | 1800 | 208-230/460 | 56C   | BR34S3ACR3     | \$1,849 | DS-3LS          | 12.7              | 40             | 3.2-3.2/1.6    | -              | 7.4                  | LA    |
| 1     | 1800 | 208-230/460 | 56C   | BR1S2ACR3      | \$1,680 | DS-3LS          | 12.7              | 37             | 3.6-3.4/1.7    | 76.6           | 7.4                  | LA    |
| 1 1/2 | 1800 | 208-230/460 | 145TC | BR32S2ACR3     | \$2,108 | DS-3LS          | 14.3              | 45             | 4.6-4.6/2.3    | 77.0           | 14.8                 | LA    |
| 2     | 1800 | 208-230/460 | 145TC | BR2S2ACR3      | \$2,250 | DS-3LS          | 14.3              | 50             | 6.2-6.2/3.1    | 80.0           | 14.8                 | LA    |
| 3     | 1800 | 208-230/460 | 182TC | BR3S2ACR3      | \$2,777 | DS-3LS          | 16.6              | 60             | 9.3-9.0/4.5    | 78.8           | 18.4                 | LA    |

## Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Full Load Eff. | Brake Torque (lb-ft) | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|-------------------|----------------|----------------|----------------|----------------------|-------|
| 1/3   | 1800 | 208-230/460 | 56    | BR13S2A3       | \$1,377 | DS-3LS          | 12.7              | 20             | 1.5-1.3/0.65   | 67.5           | 4.4                  |       |
| 1/2   | 1800 | 208-230/460 | 56    | BR12S2A3       | \$1,377 | DS-3LS          | 12.7              | 22             | 2.1-1.9/1.0    | 66.9           | 4.4                  |       |
| 3/4   | 1800 | 208-230/460 | 56    | BR34S2A3       | \$1,412 | DS-3LS          | 12.7              | 34             | 2.8-2.6/1.3    | 74.7           | 4.4                  |       |
|       | 1800 | 208-230/460 | 56    | BR34S3A3       | \$1,698 | DS-3LS          | 12.7              | 40             | 3.2-3.2/1.6    | -              | 7.4                  | LA    |
| 1 1/2 | 1800 | 208-230/460 | 145T  | BR32S2A3       | \$1,956 | DS-3LS          | 14.3              | 45             | 4.6-4.6/2.3    | 77.0           | 14.8                 | LA    |
|       | 1800 | 208-230/460 | 145T  | BR32S3A3       | \$2,672 | DS-3LS          | 14.3              | 54             | 5.3-5.3/2.7    | 74.8           | 14.8                 | LA    |
| 2     | 1800 | 208-230/460 | 145T  | BR2S2A3        | \$2,133 | DS-3LS          | 14.3              | 50             | 6.2-6.2/3.1    | 80.0           | 14.8                 | LA    |
| 3     | 1800 | 208-230/460 | 182T  | BR3S2A3        | \$2,600 | DS-3LS          | 16.6              | 60             | 9.3-9.0/4.5    | 78.8           | 18.4                 | LA    |

Note LA Limited Availability

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# FCR Brakemotor Kits

## APPLICATIONS:

Kits designed for conversion of off-the-shelf motors to accommodate the listed features below.

### Manual Brake Release

| Frame | Catalog Number | List  | Discount Symbol | Notes |
|-------|----------------|-------|-----------------|-------|
| 56    | KIT080CR013    | \$158 | DS-3LS          |       |
| 140   | KIT090CR013    | \$235 | DS-3LS          |       |

### Motor Inertia Change

| Frame | Catalog Number | List  | Discount Symbol | Notes |
|-------|----------------|-------|-----------------|-------|
| 56    | KIT080CR002    | \$220 | DS-3LS          |       |
| 145   | KIT090CR002    | \$282 | DS-3LS          |       |

### Braking Torque Change

| Frame | Catalog Number | List | Discount Symbol | Notes |
|-------|----------------|------|-----------------|-------|
| 56    | RST008RC003    | \$6  | DS-3LS          |       |
|       | RST008RC002    | \$6  | DS-3LS          |       |
| 145   | RST010RC011    | \$6  | DS-3LS          |       |
| 184   | RST012RC004    | \$6  | DS-3LS          |       |

### Brake Release Fan Cover

| Frame | Catalog Number | List  | Discount Symbol | Notes |
|-------|----------------|-------|-----------------|-------|
| 56    | KIT080CR014    | \$124 | DS-3LS          |       |
| 140   | KIT090CR014    | \$124 | DS-3LS          |       |

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## Motor Modules, Totally Enclosed 3 Phase, Frames 56 - 145T

### APPLICATIONS:

For use on U.S. MOTORS® gear reducers with tapered input shafts.

### FEATURES:

- Class F Insulation
- Design B
- Will Accept SHUR STOP® Brake Kits

### Type UTP

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-------|------|-------------|-------|----------------|---------|-----------------|------|----------------|----------------|---------|
| 1/3   | 1800 | 208-230/460 | 56    | E177           | \$269   | DS-3MM          | 1.25 | 21             | 1.2-1.2/0.6    |         |
| 1/2   | 1800 | 208-230/460 | 56    | E180           | \$303   | DS-3MM          | 1.25 | 22             | 1.8-1.8/0.9    |         |
| 3/4   | 1800 | 208-230/460 | 56    | E183           | \$328   | DS-3MM          | 1.25 | 26             | 2.7-2.8/1.4    |         |
| 1     | 1800 | 208-230/460 | 56    | E186           | \$370   | DS-3MM          | 1.25 | 31             | 3.1-3.2/1.6    | NNP, LA |
|       | 1800 | 208-230/460 | 56    | E186PE         | \$428   | DS-3MM          | 1.25 | 33             | 3.1-3.1/1.5    |         |
| 1 1/2 | 1800 | 208-230/460 | 145T  | E188           | \$379   | DS-3MM          | 1.25 | 34             | 4.7-4.7/2.3    | NNP, LA |
|       | 1800 | 208-230/460 | 145T  | E188PE         | \$454   | DS-3MM          | 1.25 | 36             | 4.5-4.3/2.1    |         |
| 2     | 1800 | 460         | 145T  | E190           | \$388   | DS-3MM          | 1.25 | 45             | 3.1            | NNP, LA |
|       | 1800 | 460         | 145T  | E190PE         | \$472   | DS-3MM          | 1.25 | 50             | 2.8            |         |
| 3     | 1800 | 208-230/460 | 145T  | F710           | \$558   | DS-3MM          | 1.25 | 55             | 9.1-8.9/4.5    | NNP, LA |
|       | 1800 | 208-230/460 | 182T  | E192PE         | \$720   | DS-3MM          | 1.25 | 65             | 8.4-7.8/3.9    |         |
| 5     | 1800 | 208-230/460 | 184T  | E194PE         | \$820   | DS-3MM          | 1.25 | 75             | 13.6-12.3/6.2  |         |
| 7.5   | 1800 | 208-230/460 | 213T  | E497PE         | \$1,140 | DS-3MM          | 1.25 | 130            | 20-18.2/9.1    |         |

## 3 Phase, Inverter Duty Frames 56 - 145T

### APPLICATIONS:

For use on U.S. MOTORS® gear reducers with tapered input shafts.

Motors are designed to operate on AC adjustable frequency controls rated for constant torque, continuous duty.

### FEATURES:

- INVERTER GRADE® Insulation System
- Refined Balance
- 230/460 Volt
- 1.00 Service Factor on Inverter Power
- Class F Thermostats (One Per Phase)

### Type UTIP, Constant Torque, 10:1 Speed Range

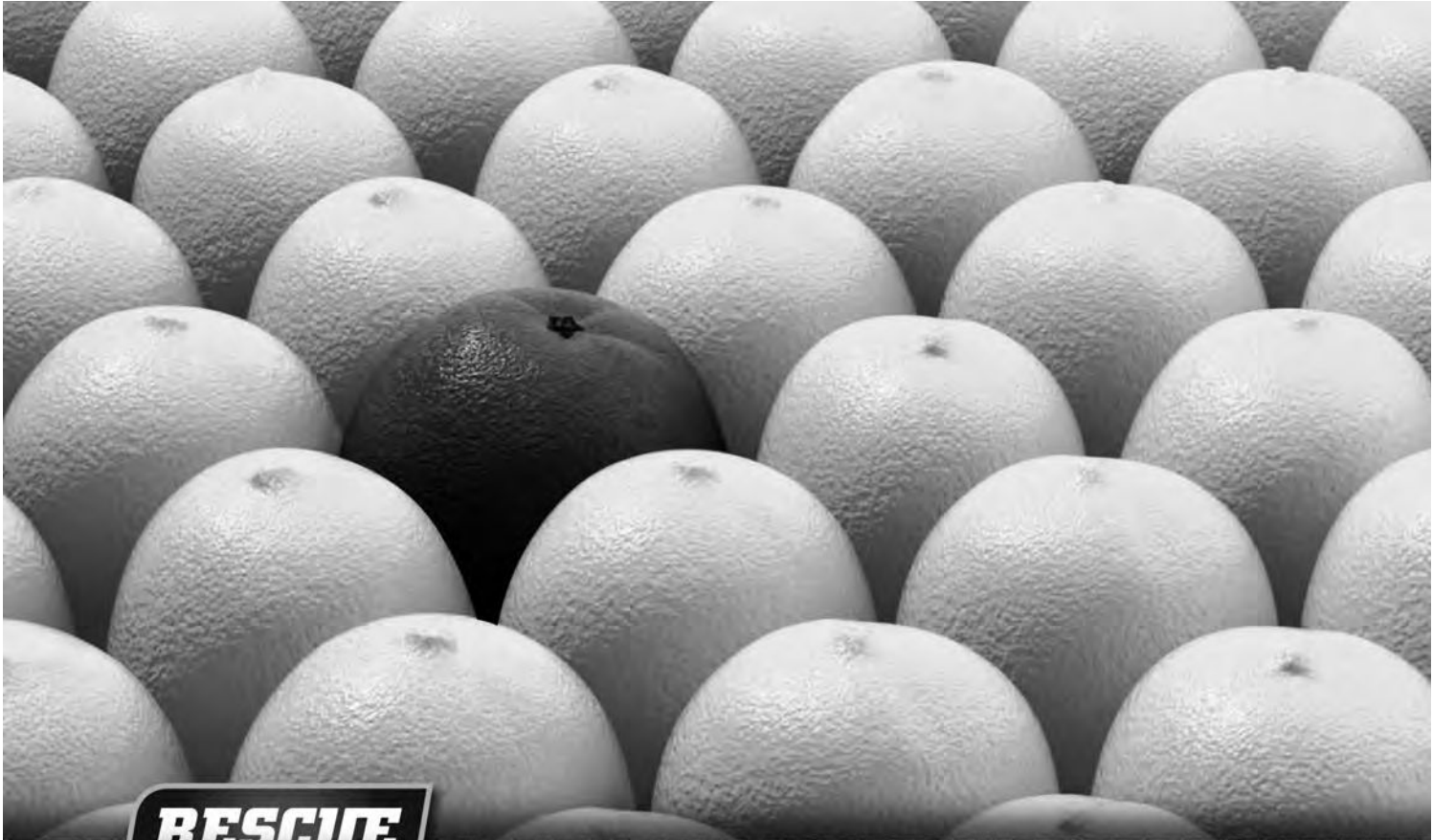
| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|-------|-----------------|------|----------------|----------------|-------|
| 1/3   | 1800 | 230/460 | 56    | G591           | \$487 | DS-3MM          | 1.25 | 21             | 1.6/0.8        |       |
| 1/2   | 1800 | 230/460 | 56    | G592           | \$524 | DS-3MM          | 1.25 | 22             | 2.3/1.1        |       |
| 3/4   | 1800 | 230/460 | 56    | G593           | \$550 | DS-3MM          | 1.25 | 27             | 2.7/1.3        |       |
| 1     | 1800 | 230/460 | 143T  | G594           | \$625 | DS-3MM          | 1.25 | 32             | 3.2/1.6        |       |
| 1 1/2 | 1800 | 230/460 | 145T  | G595           | \$634 | DS-3MM          | 1.25 | 35             | 4.5/2.3        |       |
| 2     | 1800 | 230/460 | 145T  | G596           | \$650 | DS-3MM          | 1.25 | 47             | 5.7/2.9        |       |

Note NNP Non-NEMA Premium

Note LA Limited Availability

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**RESCUE®**

# There are many imitations but only **one RESCUE®**.



**Ask for RESCUE®, the EASILY installed,  
PERMANENT replacement motor that  
helps YOU save more money.**

- Multi-Horsepower Rated
- All Angle Mounting
- Flex Mounting with Kit 44
- Belly Band Mounting with Kit 17
- Resilient Mount utilizing 2.5" Hub Rings
- Exclusive Rheem and Ruud Side Shell Holes
- Extended Studs
- Quiet Bearing System
- Reversible



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# General Purpose Single Phase

For commercial and industrial applications such as pumps, fans, blowers, conveyors and tools.



**Horsepower:** 1/12 – 10 HP

**RPM:** 3600, 1800, 1200, 900 RPM  
(Some Two Speed Ratings Available)

**Voltage:** Operable on 115, 208  
or 230 Volts, 60 Hz

**Construction:** Rolled Steel Frame

**Bearings:** Ball or Sleeve Bearings

**Ambient:** 40°C Rated

**Thermal Overload:**

- Automatic Reset Thermal Overload Protector
- Manual Reset Thermal Overload Protector
- Non-Protected

**Agency:** UL<sup>®†</sup> Recognized and  
CSA<sup>®†</sup> Certified



GENERAL PURPOSE SINGLE PHASE

## Extensive Line of General Purpose Single Phase Motors



Open Dripproof  
Split Phase



Totally Enclosed, Fan Cooled  
Split Phase



Totally Enclosed, Fan Cooled  
Capacitor Start

<sup>†</sup> All marks shown within this document are properties of their respective owners.

# General Purpose Single Phase Open Dripproof (ODP) Split Phase



## APPLICATIONS:

For commercial and industrial ventilation systems.

## FEATURES:

- 40°C Ambient
- 60 Hertz
- Reversible Rotation
- Continuous Duty
- Class A or B Insulation
- Ball Bearing

## Single Speed, Resilient Base

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | Shaft Dim. (inches) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|---------------------|------|-------------------|----------------|----------------|-------|
| 1/6 | 1200 | 115     | 48Z   | D16B3N4Z9      | \$274 | DS-3FMP         | 1/2" x 1.875"       | 1.35 | 10.4              | 17             | 4              | 20,25 |
| 1/4 | 1800 | 115     | 48    | D14B2N49       | \$143 | DS-3FMP         | 1/2" x 1.5"         | 1.35 | 8.4               | 22             | 5.1            | 20,25 |
|     | 1800 | 115     | 56Z   | D14B2NZA9      | \$172 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.4               | 15             | 5.4            | 20,25 |
|     | 1200 | 115     | 56    | D14B3N9        | \$326 | DS-3FMP         | 1/2" x 1.5"         | 1.35 | 9.7               | 25             | 5.4            | 21,25 |
|     | 1200 | 208-230 | 56    | 7998           | \$379 | DS-3FMP         | 1/2" x 1.5"         | 1.35 | 14.0              | 25             | 2.9            | 24    |
| 1/3 | 1800 | 115     | 48    | D13B2N4A9      | \$152 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.4               | 15             | 6.8            | 25    |
|     | 1800 | 115     | 48Z   | D13B2N4Z9      | \$207 | DS-3FMP         | 1/2" x 1.875"       | 1.35 | 9.2               | 16             | 6.5            | 20,25 |
|     | 1800 | 115     | 56Z   | D13B2NZA9      | \$172 | DS-3FMP         | 1/2" x 1.875"       | 1.00 | 9.8               | 15             | 6              | 25    |
|     | 1800 | 230     | 48    | D13B2K4A9      | \$167 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.4               | 15             | 3              | 25    |
|     | 1200 | 115/230 | 56    | D13B3P9        | \$379 | DS-3FMP         | 1/2" x 1.5"         | 1.35 | 9.8               | 25             | 7.5/3.8        | 21,25 |
| 1/2 | 1800 | 115     | 56    | D12B2NA9       | \$241 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.7               | 21             | 8.6            | 25    |
|     | 1800 | 115     | 56Z   | D12B2N49       | \$269 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.7               | 18             | 8.8            | 25    |
|     | 1800 | 115     | 56Z   | D12B2NZA9      | \$222 | DS-3FMP         | 1/2" x 1.875"       | 1.00 | 9.2               | 18             | 8.1            | 25    |
| 3/4 | 1800 | 115     | 56    | D34B2N9        | \$295 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.8               | 21             | 11.0           | 25    |

## Two Speed, Resilient Base

| HP        | RPM       | Voltage | Frame | Catalog Number | List  | Discount Symbol | Shaft Dim. (inches) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----------|-----------|---------|-------|----------------|-------|-----------------|---------------------|------|-------------------|----------------|----------------|-------|
| 1/3 / 1/9 | 1800/1200 | 115     | 48    | D13B10N49      | \$229 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 10.4              | 17             | 6.4/4.0        | 20,25 |
|           | 1800/1200 | 115     | 56Z   | 3053           | \$327 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 10.4              | 19             | 7.1            | 25    |
| 1/2 / 1/6 | 1800/1200 | 115     | 56    | 3306           | \$420 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 10.8              | 26             | 9.2            | 25    |

## Single Speed, Rigid Base

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | Shaft Dim. (inches) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|---------------------|------|-------------------|----------------|----------------|-------|
| 1/4 | 1800 | 115     | 48Z   | D14B2N4Z       | \$119 | DS-3FMP         | 1/2" x 2.25"        | 1.15 | 9.3               | 13             | 5.1            | 25    |
| 1/3 | 1800 | 115     | 48    | D13B2N4A       | \$146 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.7               | 16             | 6.8            | 25,61 |
|     | 1800 | 115     | 48    | D13BA2N4A      | \$195 | DS-3FMP         | 1/2" x 1.5"         | 1.35 | 9.4               | 16             | 6              | 25,61 |
|     | 1800 | 115     | 48Z   | D13B2N4Z       | \$122 | DS-3FMP         | 1/2" x 2.25"        | 1.15 | 9.6               | 14             | 5.9            | 25    |
|     | 1800 | 115     | 56Z   | 2911           | \$231 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.4               | 17             | 6.0            | 25,61 |
| 1/2 | 1800 | 115     | 48    | D12B2N4        | \$234 | DS-3FMP         | 1/2" x 1.5"         | 1.00 | 9.8               | 22             | 8.8            | 25    |

Note 20 Stud Extensions in 3 5/8" Square Pattern  
 Note 21 Stud Extensions in 4 3/16" Square Pattern  
 Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected  
 Note 61 Sleeve Bearings

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# General Purpose Single Phase Open Dripproof (ODP) Resilient Base, Capacitor Start



## APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Class A or B Insulation
- Reversible Rotation
- 40°C Ambient
- 60 Hertz
- Continuous Duty

## Single Speed

| HP    | RPM  | Voltage           | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps    | Notes      |
|-------|------|-------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|-------------------|------------|
| 1/6   | 900  | 115               | 48    | 3700           | \$555 | DS-3FMP         | 1.35 | 8.9               | 23             | 4.5               | 25         |
| 1/4   | 1800 | 115/230           | 48    | D14CP2P49      | \$326 | DS-3FMP         | 1.35 | 9.9               | 16             | 3.1/1.5           | 25         |
|       | 1800 | 115/230           | 48    | D14CPA2P49     | \$341 | DS-3FMP         | 1.35 | 9.9               | 18             | 3.1/1.5           | 24         |
|       | 1800 | 115/230           | 56    | D14CPA2P9      | \$333 | DS-3FMP         | 1.35 | 10.3              | 14             | 3.1/1.5           | 24         |
|       | 1800 | 115/230           | 56    | D14CP2P9       | \$285 | DS-3FMP         | 1.35 | 10.3              | 14             | 3.1/1.5           | 25         |
|       | 1200 | 115/230           | 56    | D14CPA3P9      | \$472 | DS-3FMP         | 1.35 | 11.8              | 19             | 3.70/1.86         | 24         |
| 1/3   | 3600 | 115/208-230       | 48    | D13CA1J49      | \$281 | DS-3FMP         | 1.35 | 9.9               | 21             | 6/2.9-3.0         | 24, LA     |
|       | 3600 | 115/208-230       | 56    | D13CA1J9       | \$281 | DS-3FMP         | 1.35 | 10.4              | 19             | 6/2.9-3.0         | 24, LA     |
|       | 3600 | 115/230           | 48    | D13CPA1P49     | \$351 | DS-3FMP         | 1.35 | 9.9               | 21             | 3.7/1.8           | 24         |
|       | 1800 | 115/208-230       | 56H   | D13CA2JH9      | \$296 | DS-3FMP         | 1.35 | 9.8               | 22             | 8.8/3.9-4.4       | 24, LA     |
|       | 1800 | 115/230           | 48    | 4145           | \$277 | DS-3FMP         | 1.00 | 9.4               | 22             | 6.8/3.4           | 25, LA     |
|       | 1800 | 115/230           | 48    | D13CP2P49      | \$346 | DS-3FMP         | 1.35 | 9.9               | 17             | 3.8/1.9           | 25         |
|       | 1800 | 115/230           | 48    | D13CPA2P49     | \$378 | DS-3FMP         | 1.35 | 9.9               | 18             | 3.8/1.9           | 24         |
|       | 1800 | 115/230           | 56    | D13CPA2P9      | \$370 | DS-3FMP         | 1.35 | 10.3              | 18             | 3.8/1.9           | 24         |
|       | 1800 | 115/230 & 110/220 | 48    | 6300           | \$250 | DS-3FMP         | 1.35 | 9.4               | 21             | 6.5/3.3 & 7.3/3.6 | 25, 98, LA |
|       | 1800 | 115/230 & 110/220 | 48    | D13CP2Z49      | \$312 | DS-3FMP         | 1.35 | 10.3              | 18             | 3.8/1.9           | 25         |
|       | 1800 | 115/230 & 110/220 | 56    | 6292           | \$303 | DS-3FMP         | 1.35 | 10.3              | 22             | 6.5/3.3           | 25, 98, LA |
|       | 1800 | 115/208-230       | 56H   | D13CP2PH9      | \$378 | DS-3FMP         | 1.35 | 11.3              | 17             | 3.8/1.9           | 25         |
|       | 1800 | 115/208-230       | 56    | D13CPM2PH9     | \$374 | DS-3FMP         | 1.34 | 10.3              | 16             | 3.8/1.9           | 23         |
|       | 1200 | 115/208-230       | 56    | D13CA3J9       | \$420 | DS-3FMP         | 1.35 | 11.3              | 32             | 6.8/3.4-3.4       | 24, LA     |
|       | 1200 | 115/230           | 56H   | D13CP3PH9      | \$507 | DS-3FMP         | 1.35 | 11.3              | 26             | 4.4/2.3           | 25         |
|       | 1200 | 115/230           | 56H   | D13CPA3P9      | \$525 | DS-3FMP         | 1.35 | 11.3              | 26             | 4.4/2.3           | 24         |
|       | 900  | 115/230           | 56    | D13CP4P9       | \$816 | DS-3FMP         | 1.35 | 12.8              | 39             | 8.7/4.3           | 25         |
| 1/2   | 3600 | 115/230           | 48    | D12CP1P49      | \$227 | DS-3FMP         | 1.25 | 9.9               | 19             | 5.0/2.5           | 25         |
|       | 3600 | 115/230           | 56H   | D12CPA1PH9     | \$242 | DS-3FMP         | 1.25 | 11.3              | 19             | 5.0/2.5           | 24         |
|       | 1800 | 115/230           | 48    | D12CP2P49      | \$283 | DS-3FMP         | 1.25 | 9.9               | 22             | 5.0/2.6           | 25         |
|       | 1800 | 115/230           | 48    | D12CPA2P49     | \$330 | DS-3FMP         | 1.25 | 9.9               | 14             | 5.0/2.6           | 24, 98     |
|       | 1800 | 115/230           | 56H   | D12CP2PH9      | \$360 | DS-3FMP         | 1.25 | 11.3              | 14             | 5.0/2.6           | 25         |
|       | 1800 | 115/230           | 56H   | D12CPA2PH9     | \$378 | DS-3FMP         | 1.25 | 11.3              | 15             | 5.0/2.6           | 24         |
|       | 1200 | 115/230           | 56H   | D12CP3PH9      | \$590 | DS-3FMP         | 1.25 | 12.3              | 36             | 4.8/2.4           | 25         |
|       | 1200 | 115/230           | 56H   | D12CPA3PH9     | \$685 | DS-3FMP         | 1.25 | 12.3              | 36             | 4.8/2.4           | 24         |
| 3/4   | 3600 | 115/208-230       | 56    | D34CA1J9       | \$272 | DS-3FMP         | 1.25 | 11.8              | 32             | 10.4/5.3-5.2      | 24, LA     |
|       | 3600 | 115/230           | 56H   | D34CPA1PH9     | \$340 | DS-3FMP         | 1.25 | 11.8              | 24             | 7.0/3.6           | 24         |
|       | 1800 | 115/230           | 56H   | D34CP2PH9      | \$408 | DS-3FMP         | 1.25 | 12.3              | 29             | 7.0/3.5           | 25         |
|       | 1800 | 115/230           | 56H   | D34CPA2PH9     | \$434 | DS-3FMP         | 1.25 | 12.3              | 29             | 7.0/3.5           | 24         |
|       | 1800 | 115/230           | 56    | 1660           | \$314 | DS-3FMP         | 1.00 | 10.8              | 28             | 11.6/5.8          | 24         |
|       | 1200 | 115/208-230       | 56H   | D34CA3JH9      | \$655 | DS-3FMP         | 1.15 | 13.3              | 40             | 10.6/5.4-5.3      | 24, LA     |
|       | 1200 | 115/230           | 56H   | D34CPA3PH9     | \$818 | DS-3FMP         | 1.15 | 13.8              | 44             | 6.6/3.4           | 25         |
| 1     | 3600 | 115/230           | 56H   | D1CP1PH9       | \$475 | DS-3FMP         | 1.25 | 13.3              | 29             | 9.3/4.3           | 25         |
|       | 3600 | 115/230           | 56H   | D1CPA1PH9      | \$480 | DS-3FMP         | 1.25 | 13.3              | 28             | 9.3/4.3           | 24         |
|       | 1800 | 115/208-230       | 56H   | D1C2JH9        | \$389 | DS-3FMP         | 1.15 | 12.3              | 32             | 14.8/7.5-7.3      | 25, LA     |
|       | 1800 | 115/230           | 56H   | D1CP2PH9       | \$486 | DS-3FMP         | 1.15 | 12.3              | 32             | 8.8/4.4           | 25         |
|       | 1800 | 115/230           | 56H   | D1CPA2PH9      | \$644 | DS-3FMP         | 1.15 | 12.3              | 31             | 8.8/4.4           | 24         |
|       | 1800 | 115/230           | 56    | D1CPA2P9       | \$644 | DS-3FMP         | 1.15 | 12.3              | 31             | 8.8/4.4           | 24         |
|       | 1200 | 115/208-230       | 56H   | D1CA3JH9       | \$703 | DS-3FMP         | 1.15 | 13.8              | 42             | 12.6/6.4-6.3      | 24, LA     |
|       | 1200 | 115/230           | 56H   | D1CPA3PH9      | \$878 | DS-3FMP         | 1.15 | 13.1              | 45             | 8.9/4.6           | 24         |
| 1 1/2 | 3600 | 115/208-230       | 56    | D32CA1JH9      | \$510 | DS-3FMP         | 1.15 | 12.3              | 28             | 18.6/9.8-9.3      | 24, LA     |
|       | 3600 | 115/208-230       | 56H   | D32CP1PH9      | \$585 | DS-3FMP         | 1.15 | 13.3              | 31             | 13.3/6.7          | 25         |
|       | 3600 | 115/208-230       | 56H   | D32CPA1PH9     | \$637 | DS-3FMP         | 1.15 | 13.3              | 31             | 13.3/6.7          | 24         |
|       | 1800 | 115/208-230       | 145T  | D32C2J149      | \$566 | DS-3SP          | 1.15 | 13.7              | 32             | 19.2/10.0-9.6     | 25         |
|       | 1800 | 115/230           | 56H   | D32CP2PH9      | \$622 | DS-3F           | 1.15 | 13.3              | 24             | 13.4/6.7          | 25         |
| 2     | 1800 | 115/230           | 56H   | D32CPA2PH9     | \$787 | DS-3FMP         | 1.15 | 12.3              | 41             | 13.4/6.7          | 24         |
|       | 3600 | 115/230           | 56H   | D2CP1PH9       | \$665 | DS-3FMP         | 1.15 | 13.8              | 41             | 17.3/8.7          | 25         |
|       | 3600 | 115/208-230       | 56H   | D2CPA1PH9      | \$700 | DS-3FMP         | 1.15 | 13.8              | 41             | 17.3/8.7          | 24         |
|       | 1800 | 115/230           | 56H   | D2CP2PH9       | \$765 | DS-3FMP         | 1.15 | 13.5              | 46             | 17.0/8.5          | 25         |
|       | 1800 | 115/230           | 56H   | D2CPA2PH9      | \$995 | DS-3FMP         | 1.15 | 13.5              | 46             | 17.0/8.5          | 24         |

## Two Speed

| HP        | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps  | Notes |
|-----------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|-----------------|-------|
| 3/4 / 1/4 | 1800 | 115     | 56    | 6311           | \$448 | DS-3FMP         | 1.25 | 10.8              | 26             | 8.9/6.1         | 25    |
| 1 / 1/3   | 1800 | 208-230 | 56    | 6316           | \$501 | DS-3FMP         | 1.15 | 11.8              | 32             | 7.4-7.4/4.0-4.3 | 25    |

Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected

Note 98 50/60 Hertz Motor

LA Limited Availability

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# General Purpose Single Phase Open Dripproof (ODP) Rigid Base, Capacitor Start



## APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Double Shielded Ball Bearings
- Rigid Base Standard
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation

| HP    | RPM  | Voltage           | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps    | Notes  |
|-------|------|-------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|-------------------|--------|
| 1/4   | 1800 | 115/230           | 48    | D14CP2P4       | \$335 | DS-3FMP         | 1.35 | 9.1               | 14             | 3.1/1.5           | 25     |
|       | 1800 | 115/230           | 48    | D14CPM2P4      | \$495 | DS-3FMP         | 1.35 | 9.9               | 15             | 3.1/1.5           | 23     |
|       | 1800 | 115/230           | 48    | D14CPA2P4      | \$403 | DS-3FMP         | 1.35 | 9.5               | 15             | 3.1/1.5           | 24     |
| 1/3   | 3600 | 115/230           | 48    | 6335           | \$267 | DS-3FMP         | 1.35 | 9.1               | 19             | 6.8/3.4           | 24, LA |
|       | 3600 | 115/230           | 48    | D13CPA1P4      | \$333 | DS-3FMP         | 1.35 | 9.1               | 21             | 3.7/1.8           | 24     |
|       | 1800 | 115/230           | 48    | D13CP2P4       | \$395 | DS-3FMP         | 1.35 | 9.1               | 17             | 3.8/1.9           | 25     |
|       | 1800 | 115/230           | 56    | D13CPM2P       | \$426 | DS-3FMP         | 1.35 | 10.3              | 16             | 3.9/1.9           | 23     |
|       | 1800 | 115/230 & 110/220 | 48    | 6349           | \$419 | DS-3FMP         | 1.35 | 9.1               | 20             | 6.5/3.3 & 7.3/3.6 | 24, LA |
|       | 1800 | 115/230 & 110/220 | 48    | D13CPA2Z4      | \$523 | DS-3FMP         | 1.35 | 9.1               | 17             | 3.8/1.9           | 24     |
|       | 1800 | 115/230           | 56    | D13CP2P        | \$402 | DS-3FMP         | 1.35 | 9.9               | 16             | 3.9/1.9           | 25     |
|       | 1800 | 115/230 & 110/220 | 48    | 6341           | \$379 | DS-3FMP         | 1.25 | 9.5               | 19             | 9.8/4.9&12.3/6.2  | 25, LA |
| 1/2   | 1800 | 115/230           | 48    | D12CP2P4       | \$470 | DS-3FMP         | 1.25 | 9.0               | 26             | 5.0/2.6           | 25     |
|       | 1800 | 115/230           | 48    | D12CPA2P4      | \$583 | DS-3FMP         | 1.25 | 9.1               | 22             | 5.0/2.6           | 24     |
|       | 1800 | 115/230           | 56    | D12CP2P        | \$478 | DS-3FMP         | 1.25 | 9.4               | 26             | 5.0/2.6           | 25     |
|       | 1800 | 115/230           | 56    | D12CPA2P       | \$486 | DS-3FMP         | 1.25 | 10.9              | 15             | 5.0/2.6           | 24     |
|       | 1800 | 115/230           | 56    | D12CPM2PH      | \$507 | DS-3FMP         | 1.25 | 9.4               | 15             | 5.0/2.6           | 23     |
|       | 1200 | 115/208-230       | 56    | D12C3J         | \$485 | DS-3F           | 1.25 | 11.9              | 32             | 10.4/5.1-5.2      | 25, LA |
|       | 1200 | 115/230           | 56H   | D12CP3PH       | \$606 | DS-3F           | 1.25 | 11.9              | 32             | 4.8/2.4           | 25     |
|       | 3600 | 115/230           | 56H   | D34CP1PH       | \$398 | DS-3FMP         | 1.25 | 11.4              | 32             | 7.0/3.6           | 25     |
| 3/4   | 3600 | 115/230           | 56H   | D34CPM1PH      | \$495 | DS-3FMP         | 1.25 | 11.4              | 24             | 7.0/3.6           | 23     |
|       | 1800 | 115/230           | 56H   | D34CP2PH       | \$588 | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5           | 25     |
|       | 1800 | 115/230           | 56H   | D34CPA2PH      | \$602 | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5           | 24     |
|       | 1800 | 115/230           | 56H   | D34CPM2PH      | \$637 | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5           | 23     |
|       | 1200 | 115/230           | 56H   | D34CP3PH       | \$746 | DS-3FMP         | 1.15 | 13.4              | 45             | 7.4/3.7           | 25     |
|       | 3600 | 115/230           | 56H   | D1CP1PH        | \$533 | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3           | 25     |
| 1     | 3600 | 115/230           | 56H   | D1CPA1PH       | \$548 | DS-3FMP         | 1.25 | 12.9              | 31             | 9.3/4.3           | 24     |
|       | 3600 | 115/230           | 56    | D1CPM1PH       | \$560 | DS-3FMP         | 1.25 | 11.4              | 29             | 9.3/4.3           | 23     |
|       | 1800 | 115/208-230       | 143T  | D1C2J14        | \$476 | DS-3SP          | 1.15 | 12.3              | 32             | 14.8/7.5-7.3      | 25     |
|       | 1800 | 115/208-230       | 143T  | D1CA2J14       | \$515 | DS-3SP          | 1.15 | 12.3              | 32             | 14.8/7.5-7.3      | 24     |
|       | 1800 | 115/208-230       | 143T  | D1CM2J14       | \$538 | DS-3SP          | 1.15 | 12.3              | 32             | 14.8/7.5-7.3      | 23     |
|       | 1800 | 115/230           | 182   | D1C2P18Z       | \$843 | DS-3SP          | 1.25 | 12.8              | 69             | 14.4/7.2          | 25     |
|       | 1800 | 115/230           | 56H   | D1CP2PH        | \$661 | DS-3FMP         | 1.15 | 11.9              | 31             | 8.8/4.4           | 25     |
|       | 1800 | 115/230           | 56H   | D1CPA2PH       | \$671 | DS-3FMP         | 1.15 | 11.9              | 31             | 8.8/4.4           | 24     |
|       | 1800 | 115/230           | 56H   | D1CPM2PH       | \$672 | DS-3FMP         | 1.15 | 11.9              | 31             | 8.8/4.4           | 23     |
|       | 1200 | 115/230           | 56H   | D1CP3PH        | \$816 | DS-3FMP         | 1.15 | 12.8              | 27             | 8.9/4.6           | 25     |
|       | 3600 | 115/208-230       | 143T  | D32C1J14       | \$474 | DS-3FMP         | 1.15 | 12.3              | 32             | 18.6/9.8-9.3      | 25     |
|       | 3600 | 115/208-230       | 56H   | D32C1JH        | \$474 | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3      | 25, LA |
| 1 1/2 | 3600 | 115/230           | 56H   | D32CPM1PH      | \$678 | DS-3FMP         | 1.15 | 12.9              | 31             | 13.3/6.7          | 23     |
|       | 3600 | 115/208-230       | 56H   | D32CP1PH       | \$592 | DS-3FMP         | 1.15 | 12.9              | 31             | 13.3/6.7          | 25     |
|       | 1800 | 115/230           | 56H   | D32CPM2PH      | \$816 | DS-3FMP         | 1.15 | 12.9              | 41             | 13.3/6.7          | 23     |
|       | 1800 | 115/208-230       | 145T  | D32C2J14       | \$632 | DS-3SP          | 1.15 | 13.3              | 32             | 19.2/10.0-9.6     | 25     |
|       | 1800 | 115/208-230       | 145T  | D32CM2J14      | \$630 | DS-3SP          | 1.15 | 13.3              | 32             | 19.2/10.0-9.6     | 23     |
|       | 1800 | 115/230           | 184   | D32C2P18Z      | \$955 | DS-3SP          | 1.15 | 13.3              | 71             | 22.0/11.0         | 25     |
|       | 1800 | 115/230           | 56H   | D32CP2PH       | \$861 | DS-3FMP         | 1.15 | 12.9              | 24             | 13.4/6.7          | 25     |
|       | 1800 | 115/230           | 56H   | D32CPA2PH      | \$797 | DS-3FMP         | 1.15 | 12.9              | 24             | 13.4/6.7          | 24     |

Note 23 Manual Reset Thermal Protector Overload  
Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected  
LA Limited Availability

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## General Purpose Single Phase Open Dripproof (ODP) Rigid Base, Capacitor Start

(continued)



| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 2     | 3600 | 115/208-230 | 145T  | D2C1J14        | \$714   | DS-3SP          | 1.15 | 12.8              | 36             | 22.4/12.4-11.2 | 25    |
|       | 3600 | 115/230     | 56H   | D2CP1PH        | \$775   | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 25    |
|       | 1800 | 115/230     | 56H   | D2CPM2PH       | \$1,018 | DS-3FMP         | 1.15 | 13.1              | 46             | 17.0/8.5       | 23    |
|       | 1800 | 115/208-230 | 145T  | D2C2J14        | \$762   | DS-3SP          | 1.15 | 13.8              | 42             | 20.0/11.3-10.0 | 25    |
|       | 1800 | 115/208-230 | 145T  | D2CA2J14       | \$792   | DS-3SP          | 1.15 | 14.3              | 42             | 20.0/11.3-10.0 | 24    |
|       | 1800 | 115/208-230 | 145T  | D2CM2J14       | \$815   | DS-3SP          | 1.15 | 14.3              | 42             | 20.0/11.3-10.0 | 23    |
|       | 1800 | 115/230     | 182T  | D2C2P18        | \$728   | DS-3SP          | 1.15 | 14.8              | 70             | 23.2/11.6      | 25    |
|       | 1800 | 115/230     | 213   | D2C2P21Z       | \$1,212 | DS-3SP          | 1.15 | 15.0              | 75             | 24.6/12.3      | 25    |
|       | 1800 | 115/230     | 56H   | D2CPA2PH       | \$987   | DS-3FMP         | 1.15 | 13.1              | 46             | 17.0/8.5       | 24    |
| 3     | 3600 | 115/230     | 182   | D3C1P18        | \$982   | DS-3SP          | 1.15 | 17.3              | 81             | 32.0/16.0      | 25    |
|       | 3600 | 208-230     | 56    | D3CPM1T        | \$888   | DS-3FMP         | 1.15 | 13.2              | 42             | 13.2           | 23    |
|       | 1800 | 115/230     | 184T  | D3C2P18        | \$918   | DS-3SP          | 1.15 | 15.8              | 76             | 38.0/19.0      | 25    |
| 5     | 3600 | 230         | 184T  | D5C1K18        | \$1,011 | DS-3SP          | 1.15 | 18.0              | 82             | 19.6           | 25    |
|       | 1800 | 230         | 184T  | D5C2K18        | \$1,389 | DS-3SP          | 1.15 | 16.3              | 86             | 22.0           | 25    |
|       | 1800 | 230         | 213T  | D5C2K21        | \$1,394 | DS-3SP          | 1.15 | 19.1              | 86             | 22.0           | 25    |
|       | 1800 | 230         | 215   | D5C2K21Z       | \$2,028 | DS-3SP          | 1.15 | 19.1              | 86             | 22.0           | 25    |
| 7 1/2 | 3600 | 230         | 213T  | D7C1K21        | \$1,265 | DS-3SP          | 1.15 | 19.1              | 89             | 30.3           | 25    |
|       | 1800 | 230         | 215T  | D7C2K21        | \$1,596 | DS-3SP          | 1.15 | 19.9              | 105            | 35.5           | 25    |
| 10    | 3600 | 230         | 215T  | D10C1K21       | \$2,287 | DS-3SP          | 1.15 | 20.6              | 92             | 40.0           | 25    |
|       | 1800 | 230         | 215T  | D10C2K21       | \$1,794 | DS-3SP          | 1.15 | 19.9              | 153            | 42.2           | 25    |

## General Purpose Single Phase Totally Enclosed Fan Cooled (TEFC) Split Phase



### APPLICATIONS:

For commercial fans and blowers, tools, conveyors, pumps and general industrial equipment requiring moderate starting torque.

RIGID BASE

### FEATURES:

- 40°C Ambient
- 60 Hertz
- Continuous Duty
- Class A or B Insulation
- Ball Bearing

### Single Speed, Resilient Base

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/6 | 1800 | 115     | 48    | T16B2N49       | \$226 | DS-3FMP         | 1.00 | 10.5              | 22             | 3.4            | 25    |
| 1/4 | 1800 | 115     | 48    | T14B2N49       | \$222 | DS-3FMP         | 1.00 | 10.5              | 22             | 4.4            | 20,25 |
|     | 1200 | 115/230 | 56    | T14B3P9        | \$360 | DS-3FMP         | 1.00 | 9.8               | 14             | 6.7/3.35       | 20,25 |

### Single Speed, Rigid Base

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/3 | 3600 | 115     | 48    | T13B1N4        | \$236 | DS-3FMP         | 1.00 | 10.7              | 19             | 5.4            | 25,58 |

Note 20 Stud Extensions in 3 5/8" Square Pattern  
 Note 23 Manual Reset Thermal Protector Overload  
 Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected  
 Note 58 Footed

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# General Purpose Single Phase Open Dripproof (ODP) C-Face, Capacitor Start



## APPLICATIONS:

For air compressors, commercial duty pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Double Shielded Ball Bearings - Locked Drive End Bearings
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation

## Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/2   | 1800 | 115/208-230 | 56C   | D12C2JC        | \$454 | DS-3FMP         | 1.25 | 10.9              | 32             | 9.0/4.3-4.5    | 25,LA |
|       | 1800 | 115/230     | 56C   | D12CP2PC       | \$567 | DS-3FMP         | 1.25 | 9.9               | 23             | 5.0/2.6        | 25    |
| 3/4   | 3600 | 115/208-230 | 56HC  | D34CP1PHC      | \$441 | DS-3FMP         | 1.25 | 11.4              | 32             | 7.0/3.6        | 25    |
|       | 3600 | 115/208-230 | 56C   | D34C1JC        | \$353 | DS-3FMP         | 1.25 | 11.4              | 32             | 10.4/5.3-5.2   | 25,LA |
| 1     | 1800 | 115/230     | 56HC  | D34CP2PHC      | \$692 | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5        | 25    |
|       | 3600 | 115/230     | 56HC  | D1CP1PHC       | \$516 | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3        | 25    |
| 1 1/2 | 1800 | 115/230     | 56HC  | D1CP2PHC       | \$795 | DS-3FMP         | 1.15 | 12.4              | 31             | 8.8/4.4        | 25    |
|       | 1800 | 115/208-230 | 143TC | D1C2J14C       | \$636 | DS-3F           | 1.15 | 11.9              | 32             | 14.8/7.5-7.3   | 25    |
| 1 1/2 | 3600 | 115/208-230 | 56HC  | D32CP1PHC      | \$635 | DS-3FMP         | 1.15 | 12.9              | 31             | 13.3/6.7       | 25    |
|       | 3600 | 115/208-230 | 143TC | D32C1J14C      | \$508 | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3   | 25    |
| 2     | 3600 | 115/208-230 | 56HC  | D32C1JHC       | \$508 | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3   | 25,LA |
|       | 1800 | 115/208-230 | 145TC | D32C2J14C      | \$670 | DS-3FMP         | 1.15 | 13.0              | 32             | 19.2/10.0-9.6  | 25    |
| 2     | 1800 | 115/230     | 56HC  | D32CP2PHC      | \$836 | DS-3FMP         | 1.15 | 13.4              | 24             | 13.4/6.7       | 25    |
|       | 3600 | 115/208-230 | 145TC | D2C1J14C       | \$654 | DS-3FMP         | 1.15 | 12.4              | 32             | 22.4/12.4-11.2 | 25    |
| 2     | 3600 | 115/230     | 56HC  | D2CP1PHC       | \$817 | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 25    |
|       | 1800 | 115/230     | 56HC  | D2CP2PHC       | \$977 | DS-3FMP         | 1.15 | 13.4              | 46             | 17.0/8.5       | 25    |

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/3   | 1800 | 115/208-230 | 56C   | D13C2JCR       | \$339   | DS-3FMP         | 1.35 | 10.4              | 20             | 6.4/3.2        | 25,LA |
|       | 1800 | 115/208-230 | 56C   | D13CA2JCR      | \$387   | DS-3F           | 1.35 | 10.5              | 22             | 8.8/4.0-4.4    | 24,LA |
| 1/2   | 1800 | 115/230     | 56C   | D13CP2PCR      | \$423   | DS-3FMP         | 1.35 | 10.8              | 18             | 3.8/1.9        | 25    |
|       | 1800 | 115/230     | 56C   | D13CPA2PCR     | \$483   | DS-3F           | 1.35 | 9.9               | 16             | 3.9/1.9        | 24,98 |
| 1/2   | 3600 | 115/208-230 | 56C   | D12C1JCR       | \$310   | DS-3FMP         | 1.25 | 11.0              | 18             | 9.2/4.4-4.6    | 24,LA |
|       | 1800 | 115/208-230 | 56C   | D12C2JCR       | \$398   | DS-3FMP         | 1.25 | 10.9              | 20             | 9.0/4.3-4.5    | 25,LA |
| 1/2   | 1800 | 115/208-230 | 56C   | D12CA2JCR      | \$456   | DS-3F           | 1.25 | 10.9              | 32             | 9.0/4.3-4.5    | 24,LA |
|       | 1800 | 115/230     | 56C   | 6184           | \$505   | DS-3FMP         | 1.25 | 10.9              | 20             | 8.4/4.2        | 24,LA |
| 1/2   | 1800 | 115/230     | 56C   | D12CP2PCR      | \$497   | DS-3FMP         | 1.25 | 10.9              | 22             | 5.0/2.6        | 25    |
|       | 1800 | 115/230     | 56C   | D12CPA2PCR     | \$570   | DS-3F           | 1.25 | 9.9               | 22             | 5.0/2.6        | 24    |
| 1/2   | 1200 | 115/208-230 | 56C   | D12C3JCR       | \$479   | DS-3F           | 1.25 | 11.9              | 32             | 10.4/5.1-5.2   | 25,LA |
|       | 1200 | 115/230     | 56C   | D12CP3PCR      | \$599   | DS-3F           | 1.25 | 12.3              | 36             | 4.8/2.4        | 25    |
| 3/4   | 3600 | 115/208-230 | 56C   | D34CA1JCR      | \$388   | DS-3FMP         | 1.25 | 11.4              | 32             | 10.4/5.3-5.2   | 24,LA |
|       | 3600 | 115/230     | 56C   | D34CPA1PCR     | \$485   | DS-3FMP         | 1.25 | 11.4              | 24             | 7.0/3.6        | 24    |
| 3/4   | 3600 | 115/230     | 56C   | D34CPM1JCR     | \$516   | DS-3FMP         | 1.25 | 11.4              | 24             | 7.0/3.6        | 23    |
|       | 1800 | 115/208-230 | 56C   | D34C2JCR       | \$488   | DS-3F           | 1.25 | 11.4              | 32             | 11.4/5.7-5.7   | 25,LA |
| 3/4   | 1800 | 115/230     | 56C   | D34CP2PCR      | \$610   | DS-3FMP         | 1.25 | 11.9              | 29             | 7.0/3.5        | 25    |
|       | 1800 | 115/230     | 56C   | D34CPA2PCR     | \$690   | DS-3FMP         | 1.25 | 12.9              | 29             | 7.0/3.5        | 24    |
| 1     | 3600 | 115/230     | 56C   | D1CPA1PCR      | \$560   | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3        | 24    |
|       | 3600 | 115/230     | 56H   | D1CP1PCR       | \$506   | DS-3FMP         | 1.25 | 12.9              | 29             | 9.3/4.3        | 25    |
| 1     | 1800 | 115/230     | 56C   | D1CPA2PCR      | \$711   | DS-3FMP         | 1.15 | 12.4              | 31             | 8.8/4.4        | 24    |
|       | 1800 | 115/208-230 | 56C   | D1C2JCR        | \$530   | DS-3FMP         | 1.15 | 11.9              | 32             | 14.8/7.5-7.3   | 25,LA |
| 1     | 1800 | 115/230     | 56C   | D1CP2PCR       | \$662   | DS-3FMP         | 1.15 | 13.1              | 31             | 8.8/4.4        | 25    |
|       | 3600 | 115/208-230 | 56C   | D32C1JCR       | \$499   | DS-3FMP         | 1.15 | 11.9              | 32             | 18.6/9.8-9.3   | 25,LA |
| 1 1/2 | 3600 | 115/208-230 | 56C   | D32CP1PCR      | \$623   | DS-3FMP         | 1.15 | 12.9              | 32             | 13.3/6.7       | 25    |
|       | 3600 | 115/230     | 56C   | D32CPA1PCR     | \$678   | DS-3FMP         | 1.15 | 12.9              | 31             | 13.3/6.7       | 24    |
| 1 1/2 | 1800 | 115/208-230 | 145TC | D32C2J14CR     | \$579   | DS-3F           | 1.15 | 13.0              | 32             | 19.2/10.0-9.6  | 25    |
|       | 1800 | 115/208-230 | 56C   | D32C2JCR       | \$555   | DS-3FMP         | 1.15 | 12.9              | 32             | 19.2/10.0-9.6  | 25,LA |
| 1 1/2 | 1800 | 115/208-230 | 56C   | D32CA2JCR      | \$594   | DS-3FMP         | 1.15 | 12.9              | 32             | 19.2/10.0-9.6  | 24,LA |
|       | 1800 | 115/230     | 56C   | D32CPA2PCR     | \$742   | DS-3FMP         | 1.15 | 12.9              | 42             | 13.4/6.7       | 24    |
| 1 1/2 | 1800 | 115/230     | 56H   | D32CP2PCR      | \$693   | DS-3FMP         | 1.15 | 12.9              | 24             | 13.4/6.7       | 25    |
|       | 3600 | 115/230     | 56C   | D2CP1PCR       | \$807   | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 25    |
| 2     | 3600 | 115/230     | 56C   | D2CPA1PCR      | \$861   | DS-3FMP         | 1.15 | 13.4              | 39             | 17.3/8.7       | 24    |
|       | 3600 | 115/208-230 | 145C  | D2C1J14CR      | \$646   | DS-3FMP         | 1.15 | 12.4              | 36             | 22.4/12.4-11.2 | 25    |
| 2     | 3600 | 115/208-230 | 56C   | D2C1JCR        | \$646   | DS-3FMP         | 1.15 | 12.4              | 32             | 22.4/12.4-11.2 | 25,LA |
|       | 1800 | 115/208-230 | 145TC | D2CA2J14CR     | \$831   | DS-3F           | 1.15 | 14.0              | 40             | 20.0/11.3-10.0 | 24    |
| 2     | 1800 | 115/208-230 | 56C   | D2CA2JCR       | \$831   | DS-3FMP         | 1.15 | 13.4              | 32             | 20.0/11.3-10.0 | 24,LA |
|       | 1800 | 115/230     | 56C   | D2CP2PCR       | \$990   | DS-3FMP         | 1.15 | 13.4              | 42             | 17.0/8.5       | 25    |
| 2     | 1800 | 115/230     | 56C   | D2CPA2PCR      | \$1,038 | DS-3FMP         | 1.15 | 13.4              | 42             | 17.0/8.5       | 24    |
|       | 1800 | 115/208-230 | 56C   | D2C2JCR        | \$792   | DS-3F           | 1.15 | 13.4              | 40             | 20.0/11.3-10.0 | 25,LA |
| 3     | 3600 | 208-230     | 56C   | D3CA1JCR       | \$775   | DS-3FMP         | 1.15 | 13.9              | 41             | 16.3-14.7      | 24,LA |

Note 18 Incorporates Run Capacitor

Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected

Note 98 50/60 Hertz

Note LA Limited Availability



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# General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) Rigid Base



## APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start, Induction Run
- F1 Assembly
- Reversible Rotation

| HP    | RPM  | Voltage         | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps   | Notes |
|-------|------|-----------------|-------|----------------|---------|-----------------|------|-------------------|----------------|------------------|-------|
| 1/4   | 1800 | 115/208-230     | 48    | T14CM2J4       | \$397   | DS-3FMP         | 1.15 | 10.3              | 22             | 6.6/2.9-3.3      | 23    |
|       | 1800 | 115/208-230     | 56    | T14CA2P        | \$424   | DS-3FMP         | 1.15 | 10.4              | 32             | 5.8/2.9          | 24    |
|       | 1200 | 115/208-230     | 56    | T14C3J         | \$541   | DS-3FMP         | 1.15 | 11.4              | 23             | 6.4/3.0-3.2      | 25    |
| 1/3   | 3600 | 115/208-230     | 48    | T13C1J4        | \$264   | DS-3FMP         | 1.15 | 10.8              | 19             | 5.5/2.7-2.8      | 25    |
|       | 1800 | 115/208-230     | 56    | T13C2J         | \$362   | DS-3FMP         | 1.15 | 10.6              | 22             | 6.6/2.9-3.3      | 25    |
|       | 1800 | 115/208-230     | 56    | T13CM2J        | \$386   | DS-3FMP         | 1.15 | 10.7              | 22             | 6.6/3.0-3.3      | 23    |
|       | 1200 | 115/208-230     | 56    | T13C3J         | \$523   | DS-3FMP         | 1.15 | 11.4              | 32             | 6.8/3.4-3.4      | 25    |
| 1/2   | 3600 | 115/208-230     | 56    | T12CM1J        | \$324   | DS-3FMP         | 1.15 | 11.6              | 19             | 8.0/3.8-4.0      | 23    |
|       | 1800 | 100-120/200-240 | 56    | 6174           | \$468   | DS-3FMP         | 1.25 | 12.0              | 27             | 6.3-5.6/3.1-2.8  | 25    |
|       | 1800 | 115/208-230     | 48    | T12C2J4        | \$415   | DS-3FMP         | 1.15 | 11.3              | 22             | 9/4.3-4.5        | 25    |
|       | 1800 | 115/208-230     | 56    | T12C2J         | \$422   | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5      | 25    |
|       | 1800 | 115/208-230     | 56    | T12CA2J        | \$465   | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5      | 24    |
|       | 1800 | 115/208-230     | 56    | T12CM2J        | \$474   | DS-3FMP         | 1.15 | 11.4              | 28             | 9.0/4.3-4.5      | 23    |
|       | 1200 | 115/208-230     | 56    | T12C3J         | \$742   | DS-3FMP         | 1.15 | 12.4              | 37             | 10.4/5.1-5.2     | 25    |
| 3/4   | 3600 | 115/208-230     | 56    | T34C1J         | \$345   | DS-3FMP         | 1.15 | 11.9              | 25             | 10.4/5.3-5.2     | 25    |
|       | 3600 | 115/208-230     | 56    | T34CA1J        | \$425   | DS-3FMP         | 1.15 | 11.9              | 32             | 10.4/5.3-5.2     | 24    |
|       | 3600 | 115/208-230     | 56    | T34CM1J        | \$408   | DS-3FMP         | 1.15 | 11.9              | 25             | 10.4/5.3-5.2     | 23    |
|       | 1800 | 115/208-230     | 56    | T34C2J         | \$512   | DS-3FMP         | 1.15 | 11.9              | 33             | 11.4/5.7-5.7     | 25    |
|       | 1800 | 100-120/200-240 | 56    | T34C2Z         | \$556   | DS-3FMP         | 1.15 | 11.9              | 32             | 9.2-8.4/4.6-4.2  | 25    |
|       | 1800 | 115/208-230     | 56    | T34CA2J        | \$521   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 24    |
|       | 1800 | 115/208-230     | 56    | T34CM2J        | \$535   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 23    |
|       | 1200 | 115/208-230     | 56H   | T34C3JH        | \$932   | DS-3FMP         | 1.15 | 13.4              | 39             | 10.6/5.4-5.3     | 25    |
| 1     | 3600 | 115/208-230     | 56    | T1C1J          | \$455   | DS-3FMP         | 1.15 | 12.4              | 32             | 13.6/6.9-6.8     | 25    |
|       | 3600 | 115/208-230     | 56    | T1CA1J         | \$498   | DS-3FMP         | 1.15 | 12.4              | 32             | 13.6/6.9-6.8     | 24    |
|       | 3600 | 115/208-230     | 56    | T1CM1J         | \$473   | DS-3FMP         | 1.15 | 12.4              | 32             | 13.6/6.9-6.8     | 23    |
|       | 1800 | 100-120/200-240 | 56    | T1C2Z          | \$641   | DS-3FMP         | 1.15 | 13.4              | 32             | 11.0-9.2/5.5-4.7 | 25    |
|       | 1800 | 115/208-230     | 143T  | T1CA2J14       | \$614   | DS-3SP          | 1.15 | 12.8              | 32             | 14.0/6.9-7.0     | 24    |
|       | 1800 | 115/208-230     | 143T  | T1CM2J14       | \$630   | DS-3SP          | 1.15 | 12.8              | 32             | 14.0/6.9-7.0     | 23    |
|       | 1800 | 115/208-230     | 56H   | T1C2JH         | \$554   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 25    |
|       | 1800 | 115/208-230     | 56H   | T1CA2JH        | \$591   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 24    |
|       | 1800 | 115/208-230     | 56H   | T1CM2JH        | \$577   | DS-3FMP         | 1.15 | 12.4              | 40             | 14.0/6.9-7.0     | 23    |
|       | 1800 | 115/230         | 182   | T1C2P18Z       | \$997   | DS-3SP          | 1.00 | 14.1              | 72             | 13.8/6.9         | 25    |
|       | 1800 | 115-208/230     | 143T  | T1C2J14        | \$576   | DS-3SP          | 1.15 | 12.8              | 32             | 14.0/6.9-7.0     | 25    |
|       | 1200 | 115/208-230     | 56H   | T1C3JH         | \$1,081 | DS-3FMP         | 1.15 | 13.9              | 44             | 12.6/6.6-6.3     | 25    |
| 1 1/2 | 3600 | 115/208-230     | 143T  | T32C1J14       | \$568   | DS-3FMP         | 1.15 | 13.3              | 34             | 14.6/8.1-7.4     | 25    |
|       | 3600 | 115/208-230     | 56H   | T32CM1JH       | \$637   | DS-3FMP         | 1.15 | 12.9              | 34             | 14.6/8.1-7.4     | 23    |
|       | 3600 | 115-208/230     | 56H   | T32C1JH        | \$568   | DS-3FMP         | 1.15 | 12.9              | 32             | 14.6/8.1-7.4     | 25    |
|       | 1800 | 115/208-230     | 145T  | T32C2J14       | \$580   | DS-3SP          | 1.15 | 14.3              | 41             | 14.4/8.0-7.2     | 25    |
|       | 1800 | 115/208-230     | 145T  | T32CA2J14      | \$619   | DS-3SP          | 1.15 | 14.3              | 40             | 14.4/8.0-7.2     | 24    |
|       | 1800 | 115/208-230     | 56H   | T32C2JH        | \$633   | DS-3FMP         | 1.15 | 13.9              | 30             | 14.4/8.0-7.2     | 25    |
|       | 1800 | 115/208-230     | 56H   | T32CA2JH       | \$646   | DS-3FMP         | 1.15 | 13.9              | 41             | 14.4/8.0-7.2     | 24    |
|       | 1800 | 115/208-230     | 56H   | T32CM2JH       | \$650   | DS-3FMP         | 1.15 | 13.9              | 28             | 14.4/8.0-7.2     | 23    |
|       | 1800 | 115/230         | 184   | T32C2P18Z      | \$1,083 | DS-3SP          | 1.00 | 15.1              | 79             | 18.4/9.2         | 25    |

Note 23 Manual Reset Thermal Protector Overload  
Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected

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# General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) Rigid Base

(continued)



| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 2     | 3600 | 115/208-230 | 145T  | T2C1J14        | \$744   | DS-3FMP         | 1.15 | 13.8              | 41             | 19.5/10.8-9.7  | 25    |
|       | 3600 | 115/208-230 | 145T  | T2CM1J14       | \$813   | DS-3FMP         | 1.15 | 13.8              | 40             | 19.5/10.8-9.7  | 23    |
|       | 3600 | 115/208-230 | 56H   | T2C1JH         | \$744   | DS-3FMP         | 1.15 | 13.4              | 40             | 19.5/10.8-9.7  | 25    |
|       | 3600 | 115/208-230 | 56H   | T2CM1JH        | \$813   | DS-3FMP         | 1.15 | 13.4              | 39             | 19.5/10.8-9.7  | 23    |
|       | 1800 | 115/208-230 | 145T  | T2C2J14        | \$838   | DS-3SP          | 1.15 | 14.3              | 54             | 18.9/10.3-9.4  | 25    |
|       | 1800 | 115/208-230 | 145T  | T2CA2J14       | \$877   | DS-3SP          | 1.00 | 14.8              | 54             | 18.9/10.3-9.4  | 24    |
|       | 1800 | 115/208-230 | 145T  | T2CM2J14       | \$901   | DS-3SP          | 1.00 | 14.3              | 54             | 18.9/10.3-9.4  | 23    |
|       | 1800 | 115/208-230 | 56H   | T2C2JH         | \$838   | DS-3FMP         | 1.15 | 13.9              | 54             | 18.9/10.3-9.4  | 25    |
|       | 1800 | 115/208-230 | 56H   | T2CA2JH        | \$877   | DS-3FMP         | 1.00 | 14.4              | 54             | 18.9/10.3-9.4  | 24    |
|       | 1800 | 115/208-230 | 56H   | T2CM2JH        | \$901   | DS-3FMP         | 1.00 | 13.9              | 54             | 18.9/10.3-9.4  | 23    |
|       | 1800 | 115/230     | 182T  | T2C2P18        | \$818   | DS-3SP          | 1.00 | 15.2              | 50             | 23.6/11.8      | 18,25 |
|       | 1800 | 115/230     | 213   | T2C2P21Z       | \$1,336 | DS-3SP          | 1.00 | 17.6              | 72             | 24.0/12.0      | 18,25 |
| 3     | 3600 | 115/230     | 182T  | T3C1P18        | \$1,008 | DS-3SP          | 1.00 | 16.6              | 83             | 32.0/16.0      | 18,25 |
|       | 1800 | 115/230     | 184T  | T3C2P18        | \$954   | DS-3SP          | 1.00 | 17.7              | 121            | 30.0/15.0      | 18,25 |
|       | 1800 | 115/230     | 215   | T3C2P21        | \$2,010 | DS-3SP          | 1.00 | 19.6              | 83             | 33.6/16.8      | 18,25 |
| 5     | 3600 | 230         | 184T  | T5C1K18        | \$1,363 | DS-3SP          | 1.00 | 17.4              | 91             | 19.6           | 18,25 |
|       | 1800 | 230         | 213T  | T5C2K21        | \$1,139 | DS-3SP          | 1.00 | 19.6              | 121            | 23.0           | 18,25 |
|       | 1800 | 230         | 215   | T5C2K21Z       | \$2,301 | DS-3SP          | 1.00 | 19.6              | 90             | 20.0           | 18,25 |
| 7 1/2 | 3600 | 230         | 213T  | T7C1K21        | \$1,789 | DS-3SP          | 1.00 | 20.0              | 92             | 30.3           | 18,25 |
|       | 1800 | 230         | 215T  | T7C2K21        | \$1,815 | DS-3SP          | 1.00 | 22.0              | 90             | 30.0           | 18,25 |

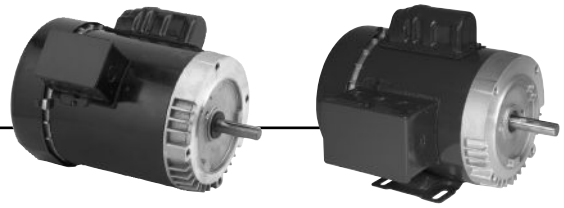
Note 18 Incorporates Run Capacitor  
Note 23 Manual Reset Thermal Protector Overload

Note 24 Automatic Reset Thermal Protector Overload  
Note 25 Non-protected

† All marks shown within this document are properties of their respective owners.



# General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face



## APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment.

## FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start, Induction Run
- F1 Assembly
- Reversible Rotation
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz

## Footed

| HP    | RPM  | Voltage           | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps         | Notes    |
|-------|------|-------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|------------------------|----------|
| 1/4   | 1800 | 115/208-230       | 56C   | T14C2JC        | \$390 | DS-3F           | 1.15 | 11.1              | 22             | 6.5/2.8-3.2            | 25       |
|       | 1200 | 115/208-230       | 56C   | T14C3JC        | \$735 | DS-3FMP         | 1.15 | 11.4              | 32             | 6.4/3.0-3.2            | 25       |
| 1/3   | 1800 | 115/208-230       | 56C   | T13C2JC        | \$380 | DS-3F           | 1.15 | 11.0              | 19             | 6.6/3-3.3              | 25       |
|       | 1200 | 115/208-230       | 56C   | T13C3JC        | \$716 | DS-3FMP         | 1.15 | 11.4              | 32             | 6.8/3.4-3.4            | 25       |
| 1/2   | 1800 | 100-120 & 200-240 | 56C   | 6212           | \$565 | DS-3FMP         | 1.25 | 12.0              | 25             | 6.3-5.6/3.1-2.8        | 18,24,98 |
|       | 1800 | 115/208-230       | 56C   | T12C2JC        | \$482 | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5            | 25       |
|       | 1200 | 115/208-230       | 56C   | T12C3JC        | \$770 | DS-3FMP         | 1.15 | 12.4              | 31             | 10.4/5.1-5.2 & 9.7/4.8 | 25       |
| 3/4   | 3600 | 115/208-230       | 56C   | T34C1JC        | \$417 | DS-3FMP         | 1.15 | 11.9              | 32             | 10.4/5.3-5.2           | 25       |
|       | 1800 | 100-120 & 200-240 | 56C   | 6214           | \$691 | DS-3FMP         | 1.25 | 12.0              | 32             | 9.2-8.4/4.6-4.2        | 24       |
|       | 1800 | 115/208-230       | 56C   | T34C2JC        | \$585 | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7           | 25       |
|       | 1200 | 115/208-230       | 56C   | T34C3JC        | \$975 | DS-3FMP         | 1.15 | 13.4              | 32             | 10.6/5.4-5.3           | 18,25    |
| 1     | 3600 | 115/208-230       | 56C   | T1C1JC         | \$489 | DS-3FMP         | 1.15 | 12.4              | 26             | 13.6/6.9-6.8           | 25       |
|       | 1800 | 100-120 & 200-240 | 56C   | T1CA2ZC        | \$730 | DS-3FMP         | 1.15 | 13.4              | 30             | 11.0-9.2/5.5-4.7       |          |
|       | 1800 | 100-120 & 200-240 | 56C   | T1CM2ZC        | \$760 | DS-3FMP         | 1.15 | 13.4              | 38             | 11.0-9.2/5.5-4.7       |          |
|       | 1800 | 115/208-230       | 143TC | T1C2J14C       | \$621 | DS-3F           | 1.15 | 12.4              | 32             | 14.0/6.9-7.0           | 25       |
|       | 1800 | 115/208-230       | 56HC  | T1C2JHC        | \$621 | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0           | 25       |
| 1 1/2 | 3600 | 115/208-230       | 56HC  | T32C1JHC       | \$603 | DS-3FMP         | 1.15 | 12.9              | 42             | 14.6/8.1-7.4           | 25       |
|       | 1800 | 115/208-230       | 145TC | T32C2J14C      | \$731 | DS-3F           | 1.15 | 13.9              | 45             | 14.4/8.0-7.2           | 25       |
|       | 1800 | 115/208-230       | 56HC  | T32C2JHC       | \$736 | DS-3FMP         | 1.15 | 13.9              | 41             | 14.4/8.0-7.2           | 25       |
| 2     | 3600 | 115/208-230       | 145TC | T2C1J14C       | \$778 | DS-3FMP         | 1.15 | 13.4              | 43             | 19.5/10.8-9.7          | 25       |
|       | 1800 | 115/208-230       | 145TC | T2C2J14C       | \$846 | DS-3FMP         | 1.15 | 13.9              | 46             | 18.9/10.3-9.4          | 18,25    |
|       | 1800 | 115/208-230       | 56HC  | T2C2JHC        | \$846 | DS-3FMP         | 1.15 | 13.9              | 43             | 18.9/10.3-9.4          | 18,25    |

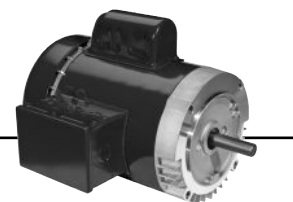
Note 18 Incorporates Run Capacitor  
 Note 24 Automatic Reset Thermal Protector Overload  
 Note 25 Non-protected  
 Note 98 50/60 Hertz

† All marks shown within this document are properties of their respective owners.



# General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face

(continued)



## Footless

| HP    | RPM  | Voltage           | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps   | Notes    |
|-------|------|-------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|------------------|----------|
| 1/6   | 1200 | 115/208-230       | 56C   | 6182           | \$598   | DS-3FMP         | 1.15 | 11.5              | 17             | 4.1/2.0-2.1      | 23       |
| 1/4   | 1800 | 115/208-230       | 56C   | T14C2JCR       | \$330   | DS-3F           | 1.15 | 11.0              | 22             | 6.5/2.8-3.2      | 25       |
|       | 1200 | 115/208-230       | 56C   | T14C3JCR       | \$314   | DS-3F           | 1.15 | 11.4              | 32             | 6.4/3.0-3.2      | 25       |
| 1/3   | 1800 | 115/208-230       | 56C   | T13C2JCR       | \$380   | DS-3F           | 1.15 | 11.0              | 22             | 6.6/3.0-3.3      | 25       |
|       | 1800 | 115/208-230       | 56C   | T13CA2JCR      | \$380   | DS-3FMP         | 1.15 | 11.0              | 22             | 6.6/3.0-3.3      | 24       |
|       | 1800 | 115/230           | 42CZ  | T13C2P42ZCR    | \$394   | DS-3FMP         | 1.00 | 11.6              | 21             | 6.2/3.1          | 25       |
|       | 1200 | 115/208-230       | 56C   | T13C3JCR       | \$546   | DS-3F           | 1.15 | 11.4              | 32             | 6.8/3.4-3.4      | 25       |
| 1/2   | 3600 | 115/208-230       | 56C   | T12CA1JCR      | \$358   | DS-3FMP         | 1.15 | 12.0              | 18             | 8.0/3.8-4.0      | 24       |
|       | 1800 | 100-120 & 200-240 | 56C   | T12C2ZCR       | \$592   | DS-3FMP         | 1.25 | 12.0              | 25             | 6.3-5.6/3.1-2.8  | 18,25,98 |
|       | 1800 | 115/208-230       | 56C   | T12C2JCR       | \$439   | DS-3FMP         | 1.15 | 12.4              | 32             | 9.0/4.3-4.5      | 25       |
|       | 1800 | 115/208-230       | 56C   | T12CA2JCR      | \$496   | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5      | 24       |
|       | 1800 | 115/208-230       | 56C   | T12CM2JCR      | \$462   | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.3-4.5      | 23       |
|       | 1200 | 115/208-230       | 56C   | T12C3JCR       | \$828   | DS-3FMP         | 1.15 | 12.4              | 32             | 10.4/5.1-5.2     | 25       |
| 3/4   | 3600 | 115/208-230       | 56C   | T34CA1JCR      | \$451   | DS-3FMP         | 1.15 | 11.9              | 32             | 10.4/5.3-5.2     | 24       |
|       | 1800 | 100-120 & 200-240 | 56C   | T34C2ZCR       | \$699   | DS-3FMP         | 1.25 | 12.4              | 23             | 9.2-8.4/4.6-4.2  | 18,25,98 |
|       | 1800 | 115/208-230       | 56C   | T34C2JCR       | \$527   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 25       |
|       | 1800 | 115/208-230       | 56C   | T34CA2JCR      | \$582   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 24       |
|       | 1800 | 115/208-230       | 56C   | T34CM2JCR      | \$551   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7-5.7     | 23       |
|       | 1200 | 115/208-230       | 56C   | T34C3JCR       | \$932   | DS-3FMP         | 1.15 | 13.4              | 28             | 10.6/5.4-5.3     | 18,25    |
| 1     | 3600 | 115/208-230       | 56C   | T1CA1JCR       | \$524   | DS-3FMP         | 1.15 | 12.4              | 32             | 13.6/6.9-6.8     | 24       |
|       | 1800 | 100-120 & 200-240 | 56C   | T1C2ZCR        | \$713   | DS-3FMP         | 1.15 | 13.4              | 35             | 11.0-9.2/5.5-4.7 | 25       |
|       | 1800 | 115/208-230       | 143TC | T1C2J14CR      | \$638   | DS-3SP          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 25       |
|       | 1800 | 115/208-230       | 143TC | T1CA2J14CR     | \$677   | DS-3SP          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 24       |
|       | 1800 | 115/208-230       | 143TC | T1CM2J14CR     | \$700   | DS-3SP          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 23       |
|       | 1800 | 115/208-230       | 56C   | T1C2JCR        | \$571   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 25       |
|       | 1800 | 115/208-230       | 56C   | T1CA2JCR       | \$610   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 24       |
|       | 1800 | 115/208-230       | 56C   | T1CM2JCR       | \$633   | DS-3FMP         | 1.15 | 12.4              | 32             | 14.0/6.9-7.0     | 23       |
| 1 1/2 | 1200 | 115/208-230       | 56C   | T1C3JCR        | \$1,011 | DS-3FMP         | 1.15 | 13.9              | 44             | 12.6/6.6-6.3     | 25       |
|       | 3600 | 115/208-230       | 143TC | T32C1J14CR     | \$637   | DS-3SP          | 1.15 | 12.9              | 32             | 14.6/8.1-7.4     | 25       |
|       | 3600 | 115/208-230       | 56C   | T32CA1JCR      | \$637   | DS-3FMP         | 1.15 | 12.9              | 32             | 14.6/8.1-7.4     | 24       |
|       | 1800 | 115/208-230       | 145TC | T32C2J14CR     | \$723   | DS-3SP          | 1.15 | 13.9              | 47             | 14.4/8.0-7.2     | 25       |
|       | 1800 | 115/208-230       | 145TC | T32CA2J14CR    | \$762   | DS-3SP          | 1.15 | 13.9              | 47             | 14.4/8.0-7.2     | 24       |
|       | 1800 | 115/208-230       | 145TC | T32CM2J14CR    | \$786   | DS-3SP          | 1.15 | 13.9              | 47             | 14.4/8.0-7.2     | 23       |
|       | 1800 | 115/208-230       | 56C   | T32C2JCR       | \$650   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 25       |
|       | 1800 | 115/208-230       | 56C   | T32CA2JCR      | \$689   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 24       |
| 2     | 1800 | 115/208-230       | 56C   | T32CM2JCR      | \$712   | DS-3FMP         | 1.15 | 13.9              | 31             | 14.4/8.0-7.2     | 23       |
|       | 3600 | 115/208-230       | 145C  | T2C1J14CR      | \$813   | DS-3SP          | 1.15 | 12.9              | 34             | 19.5/10.8-9.7    | 25       |
|       | 3600 | 115/208-230       | 56C   | T2CA1JCR       | \$813   | DS-3FMP         | 1.15 | 13.4              | 40             | 19.5/10.8-9.7    | 24       |
|       | 1800 | 115/208-230       | 145TC | T2C2J14CR      | \$969   | DS-3SP          | 1.15 | 13.9              | 46             | 18.9/10.3-9.4    | 25       |
|       | 1800 | 115/208-230       | 145TC | T2CA2J14CR     | \$1,008 | DS-3SP          | 1.00 | 14.4              | 40             | 18.9/10.3-9.4    | 24       |
|       | 1800 | 115/208-230       | 145TC | T2CM2J14CR     | \$1,031 | DS-3SP          | 1.00 | 13.9              | 40             | 18.9/10.3-9.4    | 23       |
|       | 1800 | 115/208-230       | 56C   | T2C2JCR        | \$739   | DS-3FMP         | 1.15 | 13.9              | 31             | 18.9/10.3-9.4    | 25       |
|       | 1800 | 115/208-230       | 56C   | T2CA2JCR       | \$778   | DS-3FMP         | 1.00 | 14.4              | 31             | 18.9/10.3-9.4    | 24       |
|       | 1800 | 115/208-230       | 56C   | T2CM2JCR       | \$801   | DS-3FMP         | 1.00 | 13.9              | 31             | 18.9/10.3-9.4    | 23       |

Note 18 Incorporates Run Capacitor  
 Note 23 Manual Reset Thermal Protector Overload  
 Note 24 Automatic Reset Thermal Protector Overload  
 Note 25 Non-protected

† All marks shown within this document are properties of their respective owners.





# General Purpose Single Phase, Div.1 Hazardous Location Class I (Group C&D), Class II (Group E, F, & G)



## APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment located in hazardous areas.

## FEATURES:

- UL® Listed & CSA®† Certified
- Temperature Code T3C
- Class B Insulation
- Continuous Duty
- Totally Enclosed Fan Cooled Except Where Noted
- 40°C Ambient Rated
- F1 Assembly

## Footed

| HP  | RPM  | Voltage             | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps      | Notes |
|-----|------|---------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|---------------------|-------|
| 1/4 | 1800 | 115/208-230&110/220 | 56    | XS14CA2J       | \$482   | DS-3FMP         | 1.00 | 12.5              | 32             | 5.1/2.5-2.5&5.6/2.8 | 24    |
|     | 1200 | 115/230             | 56    | XS14CA3P       | \$706   | DS-3FMP         | 1.00 | 13.0              | 32             | 6.8/3.4             | 24    |
| 1/3 | 3600 | 115/208-230         | 56    | XS13CA1J       | \$560   | DS-3FMP         | 1.00 | 13.2              | 29             | 8.0/3.6-4.0         | 24    |
|     | 1800 | 115/208-230         | 56    | XS13CA2J       | \$512   | DS-3FMP         | 1.00 | 12.7              | 32             | 6.8/3.3-3.4         | 24    |
|     | 1200 | 115/230             | 56    | XS13CA3P       | \$912   | DS-3FMP         | 1.00 | 12.7              | 32             | 7.2/3.6             | 24    |
| 1/2 | 3600 | 115/208-230         | 56    | XS12CA1J       | \$608   | DS-3FMP         | 1.00 | 13.2              | 29             | 8.8/4.1-4.4         | 24    |
|     | 1800 | 115/208-230         | 56    | XS12CA2J       | \$563   | DS-3FMP         | 1.00 | 13.2              | 32             | 9.8/4.9-4.9         | 24    |
|     | 1200 | 115/230             | 56H   | XS12CA3P       | \$1,053 | DS-3FMP         | 1.00 | 14.2              | 32             | 10.0/5.0            | 24    |
| 3/4 | 3600 | 115/208-230         | 56    | XS34CA1J       | \$686   | DS-3FMP         | 1.00 | 13.2              | 32             | 10.4/5.3-5.2        | 24    |
|     | 1800 | 115/208-230         | 56    | XS34CA2J       | \$630   | DS-3FMP         | 1.00 | 13.7              | 32             | 12.6/6.3-6.3        | 24    |
| 1   | 3600 | 115/208-230         | 56    | XS1CA1J        | \$608   | DS-3FMP         | 1.00 | 14.2              | 41             | 12.0/6.3-6.0        | 24    |
|     | 1800 | 115/208-230         | 56H   | XS1CA2JH       | \$714   | DS-3FMP         | 1.00 | 14.2              | 32             | 14.0/6.9-7.0        | 24    |

## C-Face Footless

| HP  | RPM  | Voltage             | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps      | Notes    |
|-----|------|---------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|---------------------|----------|
| 1/4 | 1800 | 115/208-230&110/220 | 56C   | XS14CA2JCR     | \$482 | DS-3FMP         | 1.00 | 11.9              | 32             | 5.1/2.5-2.5&5.6/2.8 | 24,28,78 |
| 1/3 | 3600 | 115/208-230         | 56C   | XS13CA1JCR     | \$614 | DS-3FMP         | 1.00 | 13.3              | 29             | 8.0/3.6-4.0         | 24       |
|     | 1800 | 115/208-230         | 56C   | XS13CA2JCR     | \$537 | DS-3FMP         | 1.00 | 12.8              | 32             | 6.8/3.3-3.4         | 24       |
| 1/2 | 3600 | 115/208-230         | 56C   | XS12CA1JCR     | \$681 | DS-3FMP         | 1.00 | 13.3              | 29             | 8.8/4.1-4.4         | 24       |
|     | 1800 | 115/208-230         | 56C   | XS12CA2JCR     | \$563 | DS-3FMP         | 1.00 | 13.8              | 32             | 9.8/4.9-4.9         | 24       |
| 3/4 | 3600 | 115/208-230         | 56C   | XS34CA1JCR     | \$728 | DS-3FMP         | 1.00 | 13.3              | 32             | 10.4/5.3-5.2        | 24       |
|     | 1800 | 115/208-230         | 56C   | XS34CA2JCR     | \$630 | DS-3FMP         | 1.00 | 14.3              | 32             | 12.6/6.3-6.3        | 24       |
| 1   | 3600 | 115/208-230         | 56C   | XS1CA1JCR      | \$784 | DS-3FMP         | 1.00 | 14.3              | 42             | 12.0/6.3-6.0        | 24       |
|     | 1800 | 115/208-230         | 56C   | XS1CA2JCR      | \$675 | DS-3FMP         | 1.00 | 14.8              | 44             | 14.0/6.9-7.0        | 24       |

Note 24 Automatic Reset Thermal Protector Overload  
 Note 28 TENV Enclosure  
 Note 78 Class B Insulation

† All marks shown within this document are properties of their respective owners.



## Painted Washdown Single Phase, Totally Enclosed, C-Face



The Slicker™

### APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

### FEATURES:

- Class F Insulation
- BISSC®† Certified, Smooth Design For Easy Cleaning
- USDA®† Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- F1 Assembly Position
- Double Contact Sealed Ball Bearings
- Reversible Rotation
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Stationary Grease Seal On Both Ends
- 303 Stainless Steel Shaft
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-type Drains
- Automatic Reset Thermal Overload Protector on Yoke Mount Fan Motors

### Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|---------|
| 1/2   | 3600 | 115/208-230 | 56C   | WD12C1JC       | \$523   | DS-3WD          | 1.15 | 11.8              | 32             | 7.3/3.9-3.7    | 28      |
|       | 1800 | 115/208-230 | 56C   | WD12C2JC       | \$537   | DS-3WD          | 1.15 | 12.8              | 26             | 9.5/4.6-4.8    | 25      |
| 3/4   | 3600 | 115/208-230 | 56C   | WD34C1JC       | \$538   | DS-3WD          | 1.15 | 12.3              | 30             | 9.7/5.3-4.9    | 28      |
|       | 1800 | 115/208-230 | 56C   | WD34C2JC       | \$611   | DS-3WD          | 1.15 | 13.3              | 32             | 12.8/6.4-6.5   |         |
| 1     | 3600 | 115/208-230 | 56C   | WD1C1JC        | \$583   | DS-3WD          | 1.15 | 13.3              | 32             | 13.6/6.9-6.8   |         |
|       | 1800 | 115/208-230 | 56HC  | WD1C2JHC       | \$702   | DS-3WD          | 1.15 | 13.8              | 28             | 15.4/7.8-7.6   |         |
| 1 1/2 | 3600 | 115/208-230 | 56HC  | WD32C1JHC      | \$768   | DS-3WD          | 1.15 | 13.8              | 28             | 14.6/8.1-7.4   | CSCR,25 |
|       | 1800 | 115/208-230 | 56HC  | WD32C2JHC      | \$896   | DS-3WD          | 1.15 | 15.3              | 32             | 14.4/8.0-7.2   | CSCR    |
| 2     | 1800 | 115/230     | 56HC  | WD2C2PHC       | \$1,052 | DS-3WD          | 1.15 | 15.3              | 48             | 19.6/9.8       | CSCR,25 |

### Footless

| HP  | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|---------|
| 1/2 | 3600 | 115/208-230 | 56C   | WD12C1JCR      | \$576   | DS-3WD          | 1.15 | 11.8              | 32             | 7.3/3.9-3.7    | 28      |
|     | 1800 | 115/208-230 | 56C   | WD12C2JCR      | \$663   | DS-3WD          | 1.15 | 12.8              | 32             | 8.8/4.3-4.4    | 28      |
| 3/4 | 1800 | 115/208-230 | 56C   | WD34C2JCR      | \$748   | DS-3WD          | 1.15 | 13.8              | 41             | 7.8/4.3-3.9    | CSCR,28 |
| 1   | 3600 | 115/208-230 | 56C   | WD1C1JCR       | \$672   | DS-3WD          | 1.15 | 13.8              | 34             | 9.9/5.8-5.3    | CSCR,28 |
|     | 1800 | 115/208-230 | 56C   | WD1C2JCR       | \$848   | DS-3WD          | 1.00 | 14.3              | 24             | 10.3/5.5-5.2   | CSCR    |
| 2   | 1800 | 115/230     | 56C   | WD2C2JCR       | \$1,059 | DS-3WD          | 1.15 | 15.3              | 48             | 19.6/9.8       | CSCR    |

### Permanent Split Capacitor, Yoke Mount, Non-Oscillating Totally Enclosed Air Over (TEAO) Fan Motors

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/4 | 1800 | 115/230 | 56YZ  | WD14AA2PZ7     | \$426 | DS-3WD          | 1.00 | 10.9              | 19             | 3.5/1.7        | 24    |
| 1/3 | 1800 | 115/230 | 56YZ  | WD13AA2PZ7     | \$448 | DS-3WD          | 1.00 | 10.9              | 16             | 4.9/2.5        | 24    |
| 1/2 | 1800 | 115/230 | 56YZ  | WD12AA2PZ7     | \$481 | DS-3WD          | 1.00 | 11.9              | 32             | 5.9/2.9        | 24    |

Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected

Note 28 TENV Enclosure

Note CSCR Capacitor Start /Capacitor Run

† All marks shown within this document are properties of their respective owners.



# Heating & Air Conditioning

For use in condensing units, furnaces, evaporative coolers, commercial package equipment and conditioned air systems.



**Horsepower:** 1/10 – 2 HP

**Phase:** Single and Three Phase

**RPM:** 825, 1075, 1625 or 3450 RPM

**Voltage:** 115, 208-230, 460 or 575 Volts, 60 Hz; some motors are rated 50/60 Hz

**Efficiency:** Standard and Premium

**Enclosure:**

- Open Dripproof (ODP)
- Totally Enclosed, Air Over (TEAO)

**Mounting:** Extended Stud or Resilient Rings. Also many have mounting hardware or shell holes. Other hardware available in accessory section.

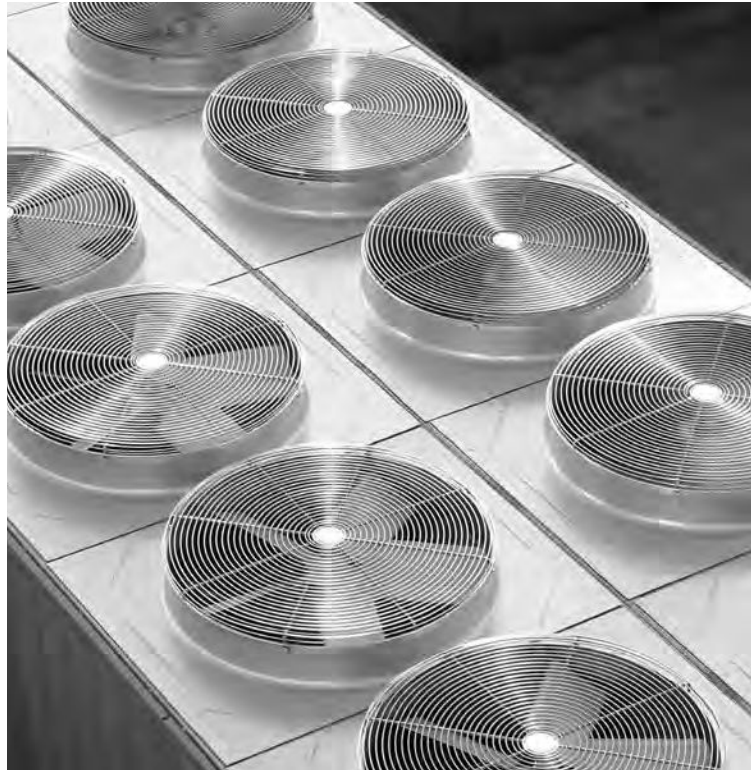
**Bearings:** Self Aligning or Ball available

**Lubrication:** Permanent on most units

**Temp Rise:** Class A or B as noted

**Thermal Overload:** Internal automatic thermal overloads unless otherwise noted

**Agency:** UL®† Recognized and CSA®† Certified



**RESCUE EcoTech®**  
see page 154

- ECM blower upgrade for PSC applications
- Up to 82% efficient
- Quick and easy installation



**RESCUE®** see page 156

- THE ULTIMATE TRUCK STOCK MOTOR™
- Multi-horsepower rated
- 3.3", 5" and 5.6" diameter designs

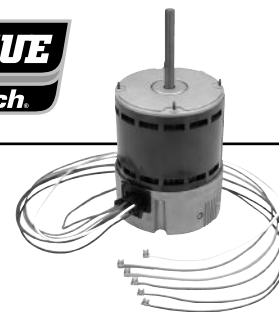


**MOJAVE®** see page 163

- MOJAVE® 70° High Ambient Design
- Totally Enclosed, Air Over Design for all angle mounting

† All marks shown within this document are properties of their respective owners.

# RESCUE EcoTech® High Efficiency Direct Drive Blower Motor



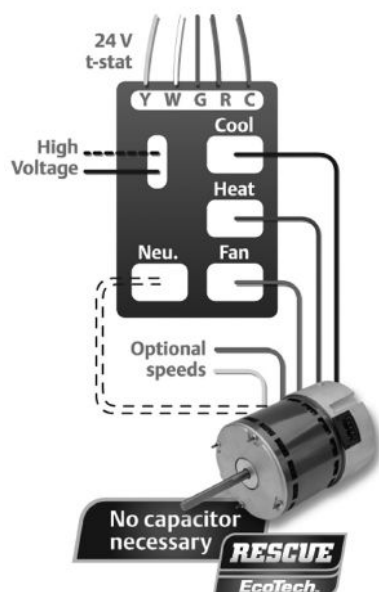
## APPLICATIONS:

Drop-in replacement for PSC Direct Drive Commercial and Residential Air Handlers and Furnaces.

## FEATURES:

- Electronically Controlled Brushless Permanent Magnet Motor
- 40°C Ambient Rated
- Reversible Rotation
- 48 Frame (5.6" Diameter)
- No Capacitor Required
- 2 Year Warranty
- Electronically Protected Motor
- Continuous Duty, Air Over
- Ball Bearing
- Class B Insulation
- 36" Leads
- Discount Symbol DS-3HAC

| HP        | RPM  | Voltage     | Catalog Number | List  | Recommended Cooling Speed | Recommended Heating Speed | Shaft Dia. x Length | Shell Length | Total Length | Ship Wt. (lbs) |
|-----------|------|-------------|----------------|-------|---------------------------|---------------------------|---------------------|--------------|--------------|----------------|
| 1/3 / 1/4 | 1075 | 115         | 5520ET         | \$505 | High (Blk)                | Med-Hi (Bl)               | .50 x 4             | 5.75         | 9.8          | 12.8           |
|           | 1075 | 230         | 5521ET         | \$505 | High (Blk)                | Med-Hi (Bl)               | .50 x 4             | 5.75         | 10.2         | 12.8           |
| 1/3 / 1/5 | 1075 | 115/208-230 | 5522ET         | \$525 | High (Blk)                | Med-Hi (Bl)               | .50 x 4.5           | 5.75         | 10.2         | 13.1           |
| 1/2       | 1075 | 230         | 5531ET         | \$536 | High (Blk)                | Med-Hi (Bl)               | .50 x 4             | 5.75         | 10.2         | 27             |
| 1/2 / 1/4 | 1075 | 115/208-230 | 5532ET         | \$558 | High (Blk)                | Med-Hi (Bl)               | .50 x 4.5           | 5.75         | 10.2         | 13.3           |
| 3/4       | 1075 | 115         | 5540ET         | \$595 | High (Blk)                | Med-Hi (Bl)               | .50 x 4             | 6.75         | 10.8         | 12.8           |
|           | 1075 | 230         | 5541ET         | \$595 | High (Blk)                | Med-Hi (Bl)               | .50 x 4             | 6.75         | 11.2         | 12.8           |
| 3/4 / 1/3 | 1075 | 115/208-230 | 5542ET         | \$619 | High (Blk)                | Med-Hi (Bl)               | .50 x 4.5           | 6.75         | 11.2         | 19.3           |
| 1         | 1075 | 230         | 5551ET         | \$634 | High (Blk)                | Med-Hi (Bl)               | .50 x 4             | 7.25         | 11.7         | 27             |
| 1 / 1/2   | 1075 | 115/208-230 | 5552ET         | \$634 | High (Blk)                | Med-Hi (Bl)               | .50 x 4.5           | 7.25         | 11.7         | 19.4           |



For illustration purposes only.  
Actual connections may vary.

- **Up to 82% Efficient** – provides a 29% increase in peak efficiency compared to a conventional PSC blower motors.
- **Exclusive Speed-sensing technology** – allows the RESCUE ECOTECH® motor to connect just like a traditional PSC motor.
- **Fits a Wide Variety of Applications** – Will work in both air handlers and furnaces and accepts several mounting methods, including flex mounts.
- **Wide Speed Range** – Five available speeds insure contractors are able to easily meet the system's airflow needs while a low 600 RPM fan speed provides quiet, efficient air circulation.
- **Active Airflow Management** – The RESCUE ECOTECH® motor's advanced electronic control allows the motor to react to changes in the system, helping to maintain airflow as static pressures change.



# RESCUE® Motors Permanent Split Capacitor Condenser Fan 5.6" Diameter, Totally Enclosed, Air Over (TEAO)

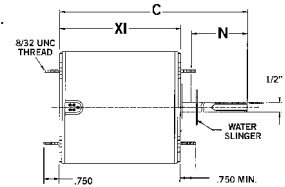


## APPLICATIONS:

Commercial and Residential Condensing Units. Can replace a range of horsepower applications and a variety of mounting styles.

## FEATURES:

- High 158°F (70°C) Or 140°F (60°C) Ambient Designs
- Automatic Reset Thermal Overload Protector
- Suitable for Use With 370V Capacitors
- Special Treated Rotor For Corrosion Protection
- Includes Lead End Mounting Holes For Rheem®† or Trane®† Units
- 48" Leads
- Extended Mounting Studs
- Ball Bearings
- Reversible Rotation
- High Efficiency Design
- Continuous Duty, Air Over
- Discount Symbol DS-3HAC



**RESCUE® Condenser Motors  
available in 158°F (70°C)  
ambient ratings!**

| HP  | RPM  | Voltage | Catalog Number | List  | Max. Ambient | Speed Tap | Cap. MFD @ 208V | Cap. MFD @ 230V | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes |
|-----|------|---------|----------------|-------|--------------|-----------|-----------------|-----------------|------|---------|----------|---------|----------------|-------|
| 1/3 | 825  | 208/230 | 5464           | \$182 | 140°F (60°C) | High      | 10              | 7.5             | 1.9  | 5       | 5.3      | 10.3    | 18             | H43   |
| 1/4 |      |         |                |       |              | High      | 10              | 7.5             | 1.5  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 10              | 7.5             | 1.2  |         |          |         |                |       |
| 1/6 |      |         |                |       |              | Low       | 10              | 7.5             | 1.0  |         |          |         |                |       |
| 1/3 | 825  | 208-230 | 5464H          | \$186 | 158°C (70°C) | High      | 10              | 7.5             | 1.9  | 5       | 5.3      | 10.3    | 18             | H43   |
| 1/4 |      |         |                |       |              | High      | 10              | 7.5             | 1.5  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 10              | 7.5             | 1.2  |         |          |         |                |       |
| 1/6 |      |         |                |       |              | Low       | 10              | 7.5             | 1.0  |         |          |         |                |       |
| 1/3 | 1075 | 208/230 | 5462           | \$140 | 140°F (60°C) | High      | 7.5             | 5               | 2.6  | 5       | 4.6      | 9.6     | 15             | H43   |
| 1/4 |      |         |                |       |              | High      | 7.5             | 5               | 2.5  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 7.5             | 5               | 2.0  |         |          |         |                |       |
| 1/6 |      |         |                |       |              | Low       | 7.5             | 5               | 1.8  |         |          |         |                |       |
| 1/3 | 1075 | 208-230 | 5462H          | \$153 | 158°C (70°C) | High      | 7.5             | 5               | 2.6  | 5       | 4.6      | 9.6     | 18.10          | H43   |
| 1/4 |      |         |                |       |              | High      | 7.5             | 5               | 2.5  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 7.5             | 5               | 2.0  |         |          |         |                |       |
| 1/6 |      |         |                |       |              | Low       | 7.5             | 5               | 1.8  |         |          |         |                |       |
| 1/2 | 1075 | 208-230 | 5465           | \$177 | 140°F (60°C) | High      | 12.5            | 10              | 3.0  | 5       | 5.3      | 10.3    | 19             | H43   |
| 1/3 |      |         |                |       |              | High      | 12.5            | 10              | 2.2  |         |          |         |                |       |
| 1/4 |      |         |                |       |              | Low       | 12.5            | 10              | 1.6  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 12.5            | 10              | 1.3  |         |          |         |                |       |
| 1/2 | 1075 | 208-230 | 5465H          | \$190 | 158°C (70°C) | High      | 12.5            | 10              | 3.0  | 5       | 5.3      | 10.6    | 14             | H43   |
| 1/3 |      |         |                |       |              | High      | 12.5            | 10              | 2.2  |         |          |         |                |       |
| 1/4 |      |         |                |       |              | Low       | 12.5            | 10              | 1.6  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 12.5            | 10              | 1.3  |         |          |         |                |       |
| 3/4 | 1075 | 208-230 | 5482H          | \$205 | 158°C (70°C) | High      | 15              | 15              | 4    | 5       | 6.3      | 11.9    | 14             | H43   |
| 1/2 |      |         |                |       |              | High      | 15              | 15              | 2.8  |         |          |         |                |       |
| 1/3 |      |         |                |       |              | Low       | 15              | 15              | 1.9  |         |          |         |                |       |
| 1/4 |      |         |                |       |              | Low       | 15              | 15              | 1.4  |         |          |         |                |       |

## 460 Volt RESCUE® Condenser Fan Motors

| HP  | RPM  | Voltage | Catalog Number | List  | Max. Ambient | Speed Tap | Cap. MFD | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes |
|-----|------|---------|----------------|-------|--------------|-----------|----------|------|---------|----------|---------|----------------|-------|
| 1/2 | 1075 | 460     | 5480H          | \$240 | 158°C (70°C) | High      | 10       | 1.3  | 5       | 5.6      | 11.1    | 19             | H43   |
| 1/3 |      |         |                |       |              | High      | 10       | 0.9  |         |          |         |                |       |
| 1/4 |      |         |                |       |              | Low       | 10       | 0.7  |         |          |         |                |       |
| 1/5 |      |         |                |       |              | Low       | 10       | 0.5  |         |          |         |                |       |
| 1/6 |      |         |                |       |              | Low       | 10       | 0.5  |         |          |         |                |       |
| 3/4 | 1075 | 460     | 5481H          | \$260 | 158°C (70°C) | High      | 15       | 2.2  | 5       | 6.3      | 11.9    | 22.38          | H43   |
| 1/2 |      |         |                |       |              | High      | 15       | 1.3  |         |          |         |                |       |
| 1/3 |      |         |                |       |              | Low       | 15       | 1.1  |         |          |         |                |       |
| 1/4 |      |         |                |       |              | Low       | 15       | 0.7  |         |          |         |                |       |

Note H43 Side Shell & Lead End Mounting Screws Included In Carton

† All marks shown within this document are properties of their respective owners.



BRAKEMOTORS  
GENERAL PURPOSE  
SINGLE PHASE  
HVAC  
WASHDOWN  
AGRICULTURE  
COMMERCIAL PUMP  
MOTORS  
CLOSE COUPLED  
PUMP MOTORS  
FIRE PUMP  
MOTORS  
POOL & SPA  
MOTORS  
RESIDENTIAL  
WATER PUMP  
ELEVATOR  
GATE & DOOR  
VARIABLE  
SPEED MOTORS  
AND DRIVES

# RESCUE® Motors Permanent Split Capacitor Direct Drive Fan & Blower, 5.6" Diameter, Open, Air Over

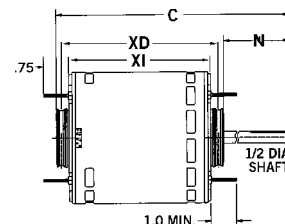


## APPLICATIONS:

Commercial and Residential Air Handlers and Furnaces. Can replace a range of horsepower applications and a variety of mounting styles.

## FEATURES:

- Extended Mounting Studs
- Suitable for Use With 370V Capacitors
- Class B Insulation
- 36" Leads
- High Efficiency Design
- Includes Side Shell Holes For Rheem®† Units
- Continuous Duty, Air Over
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- 2.5" Diameter Hub Rings Included
- **Discount Symbol DS-3HAC**



| HP  | RPM  | Voltage | Catalog Number | List  | Cool Speed Tap | Heat Speed | Bearings | Cap. MFD | Amps | Shaft N | Base XD | Shell XI | Total C | Ship Wt. | Notes   |
|-----|------|---------|----------------|-------|----------------|------------|----------|----------|------|---------|---------|----------|---------|----------|---------|
| 1/3 | 825  | 208-230 | 5469           | \$218 | Med-Hi         | High       | SAB      | 7.5      | 2.4  | 2.2     |         | 4.6      | 6.7     | 17       | H40     |
| 1/4 |      |         |                |       | Med-Low        | Med-Hi     |          | 7.5      | 1.7  |         |         |          |         |          |         |
| 1/8 |      |         |                |       | Low            | Med-Low    |          | 7.5      | 0.9  |         |         |          |         |          |         |
| 1/2 | 1075 | 115     | 5460           | \$148 | High           | Med-Hi     | SAB      | 12.5     | 7.3  | 5.0     | 5.4     | 4.8      | 9.8     | 19.74    | H23,H40 |
| 1/3 |      |         |                |       | High           | Med-Low    |          | 7.5      | 6.9  |         |         |          |         |          |         |
| 1/4 |      |         |                |       | Med-Hi         | Med-Low    |          | 7.5      | 5.5  |         |         |          |         |          |         |
| 1/5 |      |         |                |       | Med-Low        | Low        |          | 7.5      | 3.6  |         |         |          |         |          |         |
| 1/6 |      |         |                |       | Low            | Low        |          | 7.5      | 2.8  |         |         |          |         |          |         |
| 1/2 | 1075 | 208-230 | 5461           | \$151 | High           | Med-Hi     | SAB      | 10       | 3.6  | 5.0     | 5.4     | 4.8      | 9.8     | 14.58    | H23,H40 |
| 1/3 |      |         |                |       | High           | Med-Low    |          | 5        | 6.9  |         |         |          |         |          |         |
| 1/4 |      |         |                |       | Med-Hi         | Med-Low    |          | 5        | 5.5  |         |         |          |         |          |         |
| 1/5 |      |         |                |       | Med-Low        | Low        |          | 5        | 3.6  |         |         |          |         |          |         |
| 1/6 |      |         |                |       | Low            | Low        |          | 5        | 2.8  |         |         |          |         |          |         |
| 3/4 | 1075 | 115     | 5470           | \$177 | High           | Med-Hi     | Ball     | 20       | 8.1  | 5.0     | 6.6     | 6.1      | 11.6    | 18.13    | H40     |
| 1/2 |      |         |                |       | High           | Med-Low    |          | 10       | 6.6  |         |         |          |         |          |         |
| 1/3 |      |         |                |       | Med-Hi         | Med-Low    |          | 10       | 4.6  |         |         |          |         |          |         |
| 1/4 |      |         |                |       | Med-Low        | Low        |          | 10       | 3.8  |         |         |          |         |          |         |
| 1/5 |      |         |                |       | Low            | Low        |          | 10       | 3.1  |         |         |          |         |          |         |
| 3/4 | 1075 | 208-230 | 5471           | \$181 | High           | Med-Hi     | Ball     | 20       | 4.1  | 5.0     | 6.6     | 6.1      | 11.6    | 16       | H40     |
| 1/2 |      |         |                |       | High           | Med-Low    |          | 10       | 3.7  |         |         |          |         |          |         |
| 1/3 |      |         |                |       | Med-Hi         | Med-Low    |          | 10       | 2.5  |         |         |          |         |          |         |
| 1/4 |      |         |                |       | Med-Low        | Low        |          | 10       | 1.8  |         |         |          |         |          |         |
| 1/5 |      |         |                |       | Low            | Low        |          | 10       | 1.7  |         |         |          |         |          |         |

Note H23 For 1/3 To 1/6 HP, if more air flow is needed, a 7.5 MFD capacitor may be used

Note H40 Screws For Shell Mounting Included In Carton

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# Shaded Pole Unit Bearing Totally Enclosed

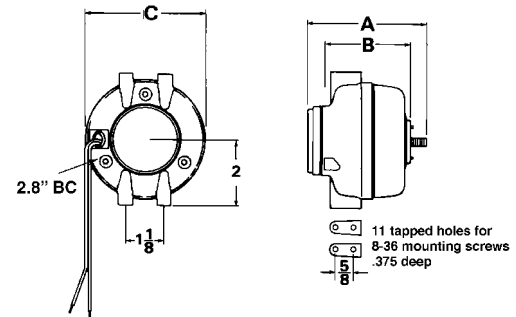


## APPLICATIONS:

Evaporator or condenser fan motors to meet manufacturer's requirements for refrigerated display cases and vending machines.

## FEATURES:

- Permanently Lubricated Bearings
- Individually Boxed
- Impedance Protected
- 6W & Under Are 60/50 Hertz Rated
- Suitable For All Angle Operation
- 24" Cord With Molded Strain Relief
- Cast Iron Housing
- Includes Vibration Dampener Hub Washer, Speed Nut, 4 Mounting Screws (2 to 35 watt)
- Discount Symbol: DS-3HAC



| HP    | RPM  | Voltage | Catalog Number | List  | Amps | Shaft Rotation | Total A | Total B | Dia. C | Shaft Dia. & Length | Ship Wt. (lbs) | Industry Number |
|-------|------|---------|----------------|-------|------|----------------|---------|---------|--------|---------------------|----------------|-----------------|
| 2.5 W | 1550 | 115     | 2102           | \$46  | 0.3  | CWLE           | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5111            |
| 4 W   | 1550 | 115     | 2115           | \$49  | 0.3  | CWLE           | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5211            |
|       | 1550 | 115     | 2103           | \$49  | 0.3  | CCWLE          | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5212            |
|       | 1550 | 230     | 2122           | \$50  | 0.2  | CCWLE          | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5222            |
|       | 1550 | 208-277 | 2123           | \$71  | 0.2  | CWLE           | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5221            |
| 5 W   | 1550 | 115     | 2119           | \$67  | 0.6  | CWLE           | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 9              | PP7577M, D582   |
|       | 1550 | 115     | 2120           | \$67  | 0.6  | CCWLE          | 3.8     | 3.4     | 3.6    | 1/4 x 20THD x 0.5   | 3              | D583            |
| 6 W   | 1550 | 115     | 2116           | \$50  | 0.4  | CCWLE          | 4.3     | 3.8     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5312            |
|       | 1550 | 115     | 2117           | \$50  | 0.4  | CWLE           | 4.3     | 3.8     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5311            |
| 9 W   | 1550 | 115     | 2118           | \$51  | 0.6  | CCWLE          | 4.3     | 3.8     | 3.6    | 1/4 x 20THD x 0.5   | 4              | 5412            |
|       | 1550 | 115     | 2108           | \$51  | 0.6  | CWLE           | 4.3     | 3.8     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5411            |
|       | 1550 | 230     | 2109           | \$56  | 0.3  | CCWLE          | 4.3     | 3.8     | 3.6    | 1/4 x 20THD x 0.5   | 3              | 5422            |
|       | 1550 | 230     | 2110           | \$56  | 0.3  | CWLE           | 4.3     | 3.8     | 3.6    | 1/4 x 20THD x 0.5   | 5              | 5421            |
| 16 W  | 1550 | 115     | 2111           | \$71  | 1    | CCWLE          | 4.5     | 4.1     | 3.6    | 1/4 x 20THD x 0.5   | 4              | 5812            |
|       | 1550 | 230     | 2114           | \$72  | 0.5  | CWLE           | 4.5     | 4.1     | 3.6    | 1/4 x 20THD x 0.5   | 5              | 5821            |
|       | 1550 | 230     | 2113           | \$72  | 0.5  | CCWLE          | 4.5     | 4.1     | 3.6    | 1/4 x 20THD x 0.5   | 5              | 5822            |
|       | 1550 | 115     | 2112           | \$71  | 1    | CWLE           | 4.5     | 4.1     | 3.6    | 1/4 x 20THD x 0.5   | 4              | 5811            |
| 25 W  | 1550 | 115     | 2124           | \$158 | 1.1  | CCWLE          | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL25EMR1      |
|       | 1550 | 115     | 2125           | \$158 | 1.1  | CWLE           | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL25EM1       |
|       | 1550 | 230     | 2126           | \$163 | 0.6  | CWLE           | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL25EM2       |
|       | 1550 | 230     | 2127           | \$163 | 0.6  | CCWLE          | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL25EMR2      |
| 35 W  | 1550 | 115     | 2128           | \$158 | 1.4  | CCWLE          | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL35EMR1      |
|       | 1550 | 115     | 2129           | \$158 | 1.4  | CWLE           | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL35EM1       |
|       | 1550 | 230     | 2130           | \$163 | 0.7  | CCWLE          | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL35EMR2      |
|       | 1550 | 230     | 2131           | \$163 | 0.7  | CWLE           | 4.5     | 4       | 3.9    | 1/4 x 20THD x 0.5   | 5              | ESPL35EM2       |
| 50 W  | 1550 | 115     | 2132           | \$182 | 1.7  | CCWLE          | 6.2     | 4.7     | 4      | .375 x 1.5          | 6              | ESPOL50EMR1     |
|       | 1550 | 115     | 2133           | \$176 | 1.7  | CWLE           | 7.2     | 5.7     | 4      | .375 x 1.5          | 6              | ESPOL50EM1      |
|       | 1550 | 230     | 2134           | \$182 | 0.9  | CCWLE          | 8.2     | 6.7     | 4      | .375 x 1.5          | 6              | ESPOL50EMR2     |
|       | 1550 | 230     | 2135           | \$182 | 0.9  | CWLE           | 9.2     | 7.7     | 4      | .375 x 1.5          | 7              | ESPOL50EM2      |

† All marks shown within this document are properties of their respective owners.



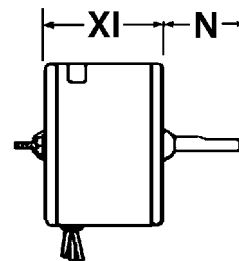
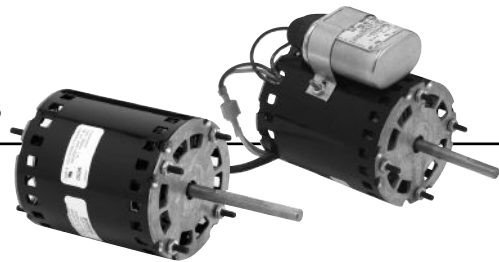
## Shaded Pole and PSC Direct Drive Fan 3.3" Diameter, Open and Totally Enclosed Designs

### APPLICATIONS:

To meet manufacturer's requirements for fans and blowers.

### FEATURES:

- Four 8-32 x 3/4" Stud Extensions At Each End
- Ball Bearings Have All Angle Thrust System
- Automatic Reset Thermal Overload Protector
- Dual Studs
- PSC Design With Capacitor Included
- 12" Leads
- Discount Symbol: DS-3HAC



### Open Air Over

| HP        | RPM  | Voltage | Catalog Number | List  | Enclosures | Rotation Shaft End | Amps    | Shell Length | Shaft Dia. x Length * | Ship Wt. (lbs) | Notes   |
|-----------|------|---------|----------------|-------|------------|--------------------|---------|--------------|-----------------------|----------------|---------|
| 1/40      | 1550 | 115     | 3803           | \$69  | OAO        | CW                 | 2.0     | 3.40         | 0.25 x 2.00           | 5              |         |
| 1/20      | 1550 | 115     | 9632           | \$65  | OAO        | Rev                | 0.9     | 3.3          | 0.31 x 2.38           | 3              | H38     |
| 1/12-1/20 | 1550 | 115/230 | 9664           | \$111 | OAO        | Rev                | 1.3/0.7 | 4.2          | 0.31 x 2.5            | 5              | H38     |
| 1/10      | 1550 | 115     | 9657           | \$176 | OAO        | Rev                | 1.00    | 4.5          | 0.31 x 3.75           | 6              | H28,H38 |

### Totally Enclosed, Air Over

| HP   | RPM  | Voltage | Catalog Number | List | Enclosures | Rotation Shaft End | Amps | Shell Length | Shaft Dia. x Length * | Ship Wt. (lbs) | Notes |
|------|------|---------|----------------|------|------------|--------------------|------|--------------|-----------------------|----------------|-------|
| 1/50 | 1550 | 115     | 9624           | \$63 | TEAO       | Rev                | 0.70 | 2.46         | 0.25 x 2.50           | 3              | H38   |
|      | 1550 | 115     | 9641           | \$68 | TEAO       | Rev                | 0.50 | 3.1          | 0.25 x 2.25           | 5              | H38   |
|      | 1550 | 115     | 9642           | \$68 | TEAO       | CW                 | 0.70 | 2.5          | 0.25 x 2.25           | 2              |       |
| 1/30 | 1550 | 115     | 9628           | \$64 | TEAO       | Rev                | 1.20 | 3.00         | 0.31 x 2.50           | 3              |       |

### OEM Direct Replacements

| HP   | RPM  | Voltage | Catalog Number | List  | Enclosures | Rotation Shaft End | Amps    | Shell Length | Shaft Dia. x Length * | Ship Wt. (lbs) | Notes  | OEM |
|------|------|---------|----------------|-------|------------|--------------------|---------|--------------|-----------------------|----------------|--------|-----|
| 1/20 | 1550 | 115     | 9662           | \$115 | OAO        | CCW/Rev            | 0.85    | 3.3          | 0.31 x 3.0            | 4              | 86,H30 | BO  |
|      | 1550 | 208-230 | 9648           | \$80  | OAO        | CW                 | 0.4     | 3.3          | 0.31 x 2.25           | 3              | H38    | FE  |
|      | 1550 | 115/230 | 9654           | \$120 | TEAO       | CW                 | 0.8/0.4 | 3.4          | 0.31 x 1.63           | 4              | 86,H31 | KR  |
| 1/15 | 1550 | 208-230 | 9656           | \$112 | OAO        | CCW/Rev            | 0.48    | 4.2          | 0.31 x 2.56           | 5              | 86,H30 | BO  |

BO = Bohn<sup>®</sup>    FE = Fedders<sup>®</sup>    KR = Krack<sup>®</sup>

\* As Measured From Motor Face

Note 86    PSC with Capacitor  
Note H28    Includes Hex Mounting Hub Both Ends

Note H30    Includes Special Cord And Plug  
Note H31    Includes Special Mounting Lugs, No Threaded Studs  
Note H38    PSC, Capacitor included and attached

† All marks shown within this document are properties of their respective owners.





# Permanent Split Capacitor Condenser Fan 5.0" Diameter, Totally Enclosed Air Over (TEAO)



## APPLICATIONS:

Residential condensing unit fan motor.

## FEATURES:

- 42" Leads
- Shaft Down Mount
- #8-32 Studs
  - Fig A: 4.312" Diameter Bolt Circle
  - Fig B: 4.464" Diameter Bolt Circle
- Suitable For Use with 370V Capacitor
- 1/2" Diameter Shaft with Flat
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- **Discount Symbol DS-3HAC**

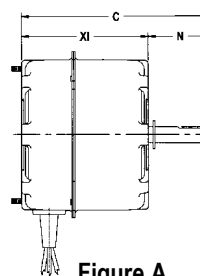


Figure A

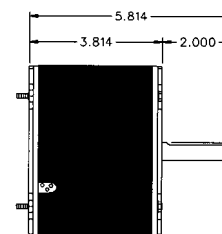


Figure B

## "Clam Shell" Single Speed, Stud Mount, Without Capacitor (Fig A) 4.312" Bolt Circle

| HP   | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes | OEM |
|------|------|---------|----------------|-------|----------|----------|------|---------|----------|---------|----------------|-------|-----|
| 1/10 | 1075 | 208-230 | 2243           | \$124 | SAB      | 5.0      | 0.75 | 2.7     | 4.1      | 6.8     | 9              |       |     |
| 1/8  | 1075 | 208-230 | 2249           | \$126 | SAB      | 5.0      | 0.90 | 2.7     | 4.1      | 6.8     | 10             |       |     |
| 1/5  | 1075 | 208-230 | 2246           | \$127 | SAB      | 5.0      | 1.60 | 2.7     | 4.1      | 6.8     | 10             |       |     |
| 1/4  | 1075 | 208-230 | 2250           | \$128 | SAB      | 7.5      | 1.70 | 2.7     | 4.1      | 6.8     | 10             |       |     |

## 5.0" Single Speed, Stud Mount, Without Capacitor (Fig B) 4.464" Bolt Circle

| HP   | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes   | OEM |
|------|------|---------|----------------|-------|----------|----------|------|---------|----------|---------|----------------|---------|-----|
| 1/20 | 1550 | 230     | 1989P          | \$201 | SAB      | 3.0      | 1.3  | 2.5     | 3.8      | 6.3     | 8              | H35,H42 | CO  |
| 1/8  | 1550 | 208-230 | 1176           | \$291 | Ball     | 5.0      | 1.1  | 2.8     | 3.7      | 6.4     | 7              | H36     | BO  |
| 1/6  | 1075 | 208-230 | 1901           | \$178 | SAB      | 5.0      | 1.0  | 2.0     | 3.8      | 5.8     | 11             |         | LE  |

BO = Bohn<sup>®†</sup>      CO = Copeland<sup>®†</sup>      LE = Lennox<sup>®†</sup>

Note H35      Open Air Over  
Note H36      Open Dripproof  
Note H42      Shaft Down

† All marks shown within this document are properties of their respective owners.



# Refrigeration Condenser Fan 5.0" and 5.6" Diameter Open Dripproof, Totally Enclosed, Air Over and Open Air Over

## APPLICATIONS:

Condenser cooling fan motors to meet manufacturer's requirements for commercial refrigeration units.

## FEATURES:

- OEM Direct Replacements
- Single Speed
- Automatic Reset Thermal Overload Protector
- Suitable for use with 370V Capacitors
- **Discount Symbol: DS- 3HAC**

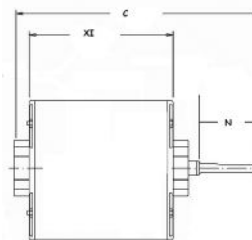
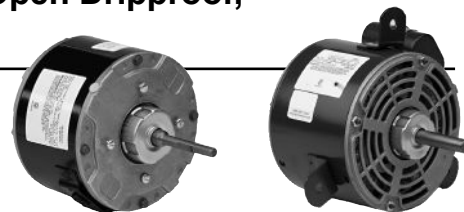


Figure A

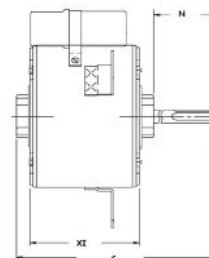


Figure B

## 5.0" Diameter, 3/8" Diameter Shaft

| HP   | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shell XI | Total C | Mount    | Ship Wt. (lbs) | Notes | OEM |
|------|------|---------|----------------|-------|----------|----------|------|---------|----------|---------|----------|----------------|-------|-----|
| 1/20 | 1300 | 230     | 1775P          | \$148 | SAB      | -        | 0.5  | 2.0     | 3.8      | 6.9     | Hub Ring | 7              | 98    | TE  |
| 1/15 | 1300 | 230     | 1779P          | \$154 | SAB      | -        | 0.62 | 2.0     | 3.8      | 6.9     | Hub Ring | 8              | 98    | TE  |

## 5.6" Permanent Split Capacitor

| HP  | RPM  | Voltage     | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shell XI | Total C | Mount     | Ship Wt. (lbs) | Notes         | OEM |
|-----|------|-------------|----------------|-------|----------|----------|------|---------|----------|---------|-----------|----------------|---------------|-----|
| 1/6 | 1550 | 208-230     | 6128           | \$263 | SAB      | 3.0      | 1.1  | 2.3     | 3.6      | 7.2     | Resilient | 17             | 64,H36        | CO  |
|     | 1550 | 208-230     | 1645           | \$263 | Ball     | 3.0      | 1.4  | 2.1     | 3.8      | 6.4     | Stud      | 12             | H35           | HU  |
| 1/5 | 1075 | 208-230     | 1648           | \$244 | Ball     | 4.0      | 2.0  | 2.5     | 4.3      | 7.8     | Stud      | 13             | H35           | HU  |
| 1/4 | 1550 | 230         | 6124           | \$242 | SAB      | 5.0      | 2.1  | 3.0     | 4.1      | 7.1     | Band      | 13             | 64,H36        | CO  |
|     | 1625 | 208-230     | 6129           | \$273 | SAB      | 5.0      | 1.5  | 2.3     | 4.3      | 7.6     | Resilient | 17             | 64,H36        | CO  |
|     | 1625 | 230         | 3042           | \$239 | Ball     | 4.0      | 1.4  | 1.5     | 5.1      | 7.7     | Hub Ring  | 12             | 64,H4,H36     | TY  |
|     | 1350 | 230         | 8330           | \$241 | SAB      | 4.0      | 1.9  | 2.2     | 4.3      | 7.7     | 3 Lugs    | 12             | 64,98,H36,H42 | TE  |
|     | 1625 | 380/420/460 | 8331           | \$257 | SAB      | 4.0      | 0.95 | 2.2     | 4.3      | 7.7     | 3 Lugs    | 12             | 64,98,H36,H42 | TE  |
| 1/3 | 1625 | 208-230     | 6127           | \$264 | SAB      | 4.0      | 2.2  | 1.75    | 5.8      | 8.7     | Resilient | 17             | 64,H45        | CO  |
|     | 1625 | 208-230     | 7232           | \$173 | SAB      | 6.0      | 2.9  | 3.7     | 4.6      | 9.6     | Hub Ring  | 16             | 64,H35        | HR  |
| 1/2 | 1725 | 208/230     | 644            | \$250 | Ball     | 5.0      | 2.7  | 3.5     | 5.1      | 8.6     | Stud      | 15             | H18,H36       | HU  |

CO = Copeland<sup>†</sup>

HU = Hussmann<sup>†</sup>

HR = Hill Refrigeration<sup>†</sup>

TE = Tecumseh<sup>†</sup>

TY = Tyler<sup>†</sup>

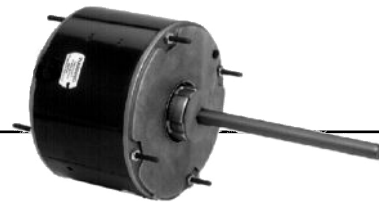
Note 64 Capacitor Included  
 Note 98 50/60 Hertz  
 Note H4 2-1/4" Hub Rings  
 Note H18 Conduit Box

Note H35 Open Air Over  
 Note H36 Open Dripproof  
 Note H42 Shaft Down  
 Note H45 Totally Enclosed Air Over

<sup>†</sup> All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Condenser Fan 5.6" Diameter, Totally Enclosed Air Over (TEAO)

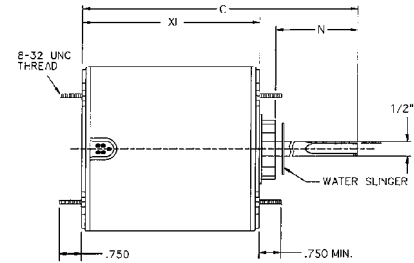


## APPLICATIONS:

Residential and commercial condenser unit fan motors to meet manufacturer's requirements.

## FEATURES:

- 140°F (60°C) Ambient Design
- Sleeve Bearings Have All Angle Thrust System
- Class B Insulation
- Suitable for Use With 370V Capacitors
- Extended Studs
- 30" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- Discount Symbol: DS-3HAC



## Stud Mount, Without Capacitor, High Ambient (60°C) Design, All Angle Mount

| HP        | RPM/<br>Spds | Voltage | Catalog<br>Number | List  | Bearings | Cap.<br>MFD  | Amps    | Shaft<br>N | Shell<br>XI | Total<br>C | Ship Wt.<br>(lbs) | Notes | OEM |
|-----------|--------------|---------|-------------------|-------|----------|--------------|---------|------------|-------------|------------|-------------------|-------|-----|
| 1/12      | 1100         | 208-230 | *3401             | \$151 | Sleeve   | 5.0          | 0.7     | 1.6        | 4.1         | 5.7        | 9                 |       | CA  |
| 1/10      | 825          | 208-230 | 1871              | \$149 | Sleeve   | 3.0          | 1.0     | 6.0        | 3.8         | 10.4       | 10                |       |     |
|           | 1100         | 208-230 | 3402              | \$160 | Sleeve   | 5.0          | 0.8     | 1.6        | 4.1         | 5.7        | 9                 |       | CA  |
| 1/8       | 825          | 208-230 | 1872              | \$150 | Sleeve   | 5.0          | 0.78    | 6.0        | 4.1         | 10.6       | 11                | 72    |     |
|           | 825          | 208-230 | 5456              | \$167 | Sleeve   | 5.0          | 1.2     | 3.8        | 4.1         | 7.8        | 11                | 72    | RH  |
| 1/6       | 825          | 208-230 | 1873              | \$164 | Sleeve   | 5.0          | 1.00    | 6.0        | 4.1         | 10.6       | 12                | 72    |     |
|           | 825          | 208-230 | 5457              | \$177 | Sleeve   | 7.5          | 1.2     | 3.8        | 4.6         | 8.3        | 13                | 72    | RH  |
|           | 825/2        | 208-230 | 8673              | \$214 | Sleeve   | 5.0          | 1.0     | 6.0        | 4.4         | 10.9       | 14                |       |     |
|           | 1075         | 208-230 | 1859              | \$101 | Sleeve   | 5.0          | 1.0     | 5.0        | 3.8         | 9.4        | 11                |       |     |
| 1/5       | 1500         | 208-230 | 3405              | \$185 | Sleeve   | 5.0          | 0.8     | 1.6        | 4.1         | 5.7        | 9                 |       | CA  |
|           | 1075         | 208-230 | 5450              | \$168 | Sleeve   | 3.0          | 1.3     | 3.7        | 3.8         | 7.5        | 11                | 72    | RH  |
| 1/4 / 1/8 | 1075         | 208-230 | 5454              | \$135 | Sleeve   | 3.0          | 1.7     | 3.7        | 3.8         | 8.1        | 11                | 72    | RH  |
|           | 825          | 208/230 | 1874              | \$164 | Sleeve   | 5.0          | 2.0     | 6.0        | 4.3         | 10.9       | 13                | 72    |     |
| 1/4       | 825          | 575     | 1276              | -     | Ball     | 5.0MFD @370V | 0.7     | 5.0        | 4.8         | 10.3       | 10                |       |     |
|           | 825          | 460     | 1880              | \$254 | Ball     | 5.0          | 1.0     | 6.0        | 5.1         | 11.6       | 14                |       |     |
|           | 850          | 208-230 | 1743              | \$167 | Sleeve   | 5.0          | 1.5     | 2.8        | 4.6         | 7.3        | 10                |       | YK  |
|           | 825/2        | 208-230 | 8674              | \$242 | Sleeve   | 7.5          | 1.5     | 6.0        | 4.6         | 11.1       | 15                |       |     |
|           | 1075         | 208-230 | 1860              | \$105 | Sleeve   | 5.0          | 1.5     | 5.0        | 4.1         | 9.6        | 12                |       |     |
|           | 1075         | 208-230 | 1876              | \$108 | Ball     | 5.0          | 1.5     | 5.0        | 4.1         | 9.6        | 11                |       |     |
|           | 1115         | 460     | 3736              | \$235 | Ball     | 7.5          | 0.8     | 6.0        | 4.6         | 11.1       | 12                |       |     |
|           | 1100         | 208-230 | 3404              | \$201 | Sleeve   | 5.0          | 1.8     | 1.6        | 4.6         | 6.2        | 12                |       | CA  |
| 1/3 / 1/5 | 1625         | 208-230 | 1890              | \$231 | Sleeve   | 5.0          | 1.4     | 5.0        | 4.3         | 9.9        | 12                |       |     |
|           | 825          | 208-230 | 1875              | \$186 | Sleeve   | 7.5          | 2.4-1.4 | 6.0        | 5.1         | 11.6       | 17                | 72    |     |
|           | 825          | 460     | 1881              | \$333 | Ball     | 7.5          | 1.0     | 6.0        | 5.6         | 12.1       | 17                |       |     |
|           | 825/2        | 208-230 | 8675              | \$253 | Sleeve   | 7.5          | 2.0     | 6.0        | 5.4         | 11.9       | 17                |       |     |
|           | 1130         | 208-230 | 1861              | \$112 | Sleeve   | 7.5          | 2.0     | 5.0        | 4.6         | 10.1       | 14                |       |     |
|           | 1075         | 208-230 | 5455              | \$144 | Sleeve   | 5.0          | 2.0     | 3.7        | 4.1         | 8.3        | 13                | 72    | RH  |
|           | 1075         | 208-230 | 1877              | \$115 | Ball     | 7.5          | 2.0     | 5.0        | 4.6         | 10.1       | 14                |       |     |
|           | 1115         | 460     | 3737              | \$269 | Ball     | 7.5          | 1.3     | 6.0        | 5.4         | 11.9       | 17                |       |     |
| 1/3       | 1075/2       | 208-230 | 8670              | \$222 | Sleeve   | 7.5          | 2.2     | 6.0        | 4.8         | 11.4       | 16                | 71    |     |
|           | 1625         | 208-230 | 1891              | \$263 | Sleeve   | 5.0          | 1.9     | 5.0        | 4.6         | 10.1       | 13                |       |     |
|           | 825/2        | 208-230 | 5464              | \$182 | Ball     | 10/7.5       | 1.9     | 5.0        | 5.3         | 10.3       | 18                | 72    |     |
|           | 1075         | 208-230 | 3222              | \$120 | Sleeve   | 10.0         | 1.8     | 5.0        | 4.6         | 9.6        | 11                | 72    |     |
|           | 1075         | 208-230 | 3323              | \$124 | Ball     | 7.5          | 2.0     | 5.0        | 4.1         | 9.1        | 12                | 72    |     |
|           | 1075/2       | 208-230 | 5462              | \$140 | Ball     | 7.5/5.0      | 2.6     | 5.0        | 4.6         | 9.6        | 14                | 72    |     |
|           |              |         |                   |       |          |              |         |            |             |            |                   |       |     |
|           |              |         |                   |       |          |              |         |            |             |            |                   |       |     |

CA = Carrier® RH = Rheem® YK = York®

\*Rotation CWLE

Note 71 1.5" Studs Shaft End Only, 40C Ambient, Double Flats, ECONOMIZER® Motor

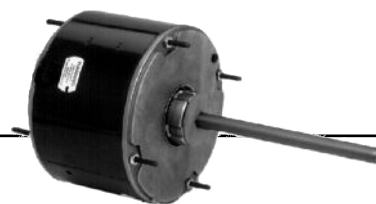
Note 72 Includes Q-4 holes in shell for Rheem® Mount

† All marks shown within this document are properties of their respective owners.



## Permanent Split Capacitor Condenser Fan 5.6" Diameter, Totally Enclosed Air Over (TEAO)

(continued)



| HP        | RPM    | Voltage | Catalog Number | List  | Bearings | Cap. MFD  | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes | OEM |
|-----------|--------|---------|----------------|-------|----------|-----------|------|---------|----------|---------|----------------|-------|-----|
| 1/2       | 825    | 208-230 | 1870           | \$237 | Sleeve   | 12.5      | 2.8  | 6.0     | 6.4      | 12.4    | 20             |       |     |
|           | 825    | 460     | 1882           | \$385 | Ball     | 10.0      | 1.6  | 6.0     | 6.3      | 12.9    | 21             |       |     |
|           | 1075   | 208-230 | 1862           | \$124 | Sleeve   | 10.0      | 3.1  | 6.0     | 5.3      | 11.9    | 18             |       |     |
|           | 1075   | 208-230 | 1878           | \$127 | Ball     | 10.0      | 3.1  | 6.0     | 5.3      | 11.9    | 18             |       |     |
|           | 1115   | 460     | 3738           | \$277 | Ball     | 10.0      | 1.5  | 6.0     | 5.9      | 12.4    | 19             |       |     |
|           | 1075/2 | 208-230 | 8671           | \$257 | Sleeve   | 10.0      | 2.9  | 6.0     | 4.3      | 10.8    | 21             | 71    |     |
|           | 1625   | 208-230 | 1892           | \$321 | Sleeve   | 5.0       | 3.0  | 5.0     | 5.1      | 10.6    | 15             |       |     |
| 1/2 / 1/5 | 1075/2 | 208-230 | 5465           | \$177 | Ball     | 12.5/10.0 | 3.0  | 5.0     | 5.3      | 10.3    | 19             | 72    |     |
| 3/4       | 1075   | 208-230 | 1868           | \$153 | Sleeve   | 10.0      | 4.7  | 5.0     | 5.8      | 10.3    | 20             |       |     |
|           | 1075   | 208-230 | 1879           | \$156 | Ball     | 10.0      | 4.7  | 5.0     | 5.8      | 11.4    | 21             |       |     |
|           | 1075   | 460     | 3742           | \$319 | Ball     | 10.0      | 2.0  | 6.0     | 6.4      | 12.9    | 22             |       |     |

Note 71 1.5" Studs Shaft End Only, 40C Ambient, Double Flats, ECONOMIZER® Motor

Note 72 Includes Q-4 holes in shell for Rheem® Mount

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Condenser Fan MOJAVE® Series

## Condenser Fan 5.6" Diameter, Totally Enclosed Air Over (TEAO)

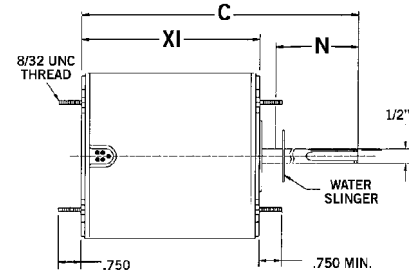


### APPLICATIONS:

Residential and commercial condenser unit fan motors in extreme temperature locations.

### FEATURES:

- 158°F (70°C) Ambient Design
- Ball Bearings Have All Angle Thrust System
- Class F insulation
- Suitable for use with 370V Capacitors
- Extended Studs
- 48" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- **Discount Symbol: DS-3HAC**



### Stud Mount, Without Capacitor, Extreme High Ambient Design, All Angle Mount

| HP        | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps    | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes |
|-----------|------|---------|----------------|-------|----------|----------|---------|---------|----------|---------|----------------|-------|
| 1/8       | 825  | 208-230 | 1872H          | \$160 | Ball     | 5.0      | 0.78    | 6.0     | 4.3      | 10.6    | 13.7           |       |
| 1/4 / 1/8 | 825  | 208-230 | 1874H          | \$173 | Ball     | 5.0      | 2.1     | 6.0     | 4.4      | 10.9    | 13.0           | H25   |
| 1/6       | 825  | 208-230 | 1873H          | \$172 | Ball     | 5.0      | 1.2     | 6.0     | 4.3      | 10.6    | 17.0           |       |
|           | 1075 | 208-230 | 1859H          | \$115 | Ball     | 5.0      | 1.0     | 5.0     | 4.0      | 9.4     | 18.1           |       |
| 1/4       | 1075 | 208-230 | 1860H          | \$113 | Ball     | 5.0      | 1.7     | 6.0     | 4.1      | 10.6    | 12.0           |       |
| 1/3       | 1075 | 208-230 | 1861H          | \$119 | Ball     | 7.5      | 2.1     | 6.0     | 4.6      | 11.1    | 14.0           |       |
|           | 825  | 208-230 | 1875H          | \$196 | Ball     | 7.5      | 2.4-1.4 | 6.0     | 5.3      | 11.6    | 17.0           |       |
| 1/2       | 1075 | 208-230 | 1862H          | \$133 | Ball     | 10.0     | 3.2     | 6.0     | 5.3      | 11.9    | 18.0           |       |
|           | 825  | 208-230 | 1870H          | \$250 | Ball     | 10.0     | 3.3     | 6.0     | 6.1      | 12.4    | 17.0           |       |
| 3/4       | 1075 | 208-230 | 1868H          | \$162 | Ball     | 10.0     | 4.7     | 6.0     | 5.8      | 12.4    | 20.0           |       |

### 460 Volt

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes |
|-----|------|---------|----------------|-------|----------|----------|------|---------|----------|---------|----------------|-------|
| 1/4 | 1075 | 460     | 3736H          | \$248 | Ball     | 7.5      | 0.8  | 6.0     | 4.8      | 11.1    | 18.1           |       |
| 1/3 | 1075 | 460     | 3737H          | \$282 | Ball     | 7.5      | 1.3  | 6.0     | 5.6      | 11.9    | 18.1           |       |
| 1/2 | 1075 | 460     | 3738H          | \$291 | Ball     | 10.0     | 1.5  | 6.0     | 5.8      | 12      | 18.1           |       |
| 3/4 | 1075 | 460     | 3742H          | \$327 | Ball     | 10.0     | 2.0  | 6.0     | 6.6      | 12.9    | 18.1           |       |

### 575 Volt

| HP  | RPM  | Voltage | Catalog Number | List | Bearings | Cap. MFD     | Amps | Shaft N | Shell XI | Total C | Ship Wt. (lbs) | Notes |
|-----|------|---------|----------------|------|----------|--------------|------|---------|----------|---------|----------------|-------|
| 1/4 | 1075 | 575     | 1295H          | -    | Ball     | 7.5MFD @370V | 0.6  | 5.0     | 4.3      | 9.8     | 11.44          |       |

Note H25 Includes 4 Holes with Screws in Shell for Rheem®† Mount

† All marks shown within this document are properties of their respective owners.



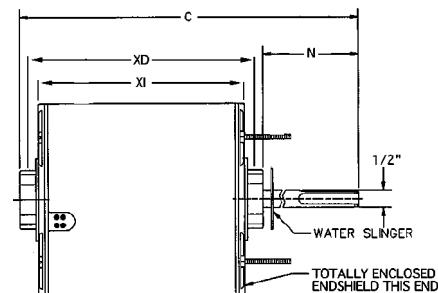
## Permanent Split Capacitor Condenser Fan 5.6" Diameter, Open Dripproof, Air Over

### APPLICATIONS:

To meet manufacturer's requirements for condenser cooling fans.

### FEATURES:

- High Efficiency ECONOMIZER® Rated (except as noted)
- 60 Hertz
- Capacitor Mounting Holes In Frame Band
- Continuous Duty, Air Over
- Water Slinger
- Suitable For Use with 370V Capacitor
- Automatic Reset Thermal Overload Protector
- Bearings have All Angle Thrust System
- Green Ground Lead
- Reversible Rotation
- Class B Insulation
- Extended Studs are 8-32 UNC Thread unless otherwise noted
- 30" Leads
- Double Flats On Shaft
- Enclosed End Shield At Shaft End
- **Discount Symbol: DS-3HAC**



### Stud Mount, Shaft Up or Horizontal, Without Capacitor

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps    | Shaft N | Base XD | Shell XI | Total C | Ship Wt. (lbs) | Notes         | OEM |
|-----|------|---------|----------------|-------|----------|----------|---------|---------|---------|----------|---------|----------------|---------------|-----|
| 1/8 | 1550 | 230     | 1675           | \$168 | SAB      | 5.0      | 0.79    | 3.0     |         | 3.8      | 6.8     | 9              |               | TR  |
| 1/4 | 825  | 230     | 8666           | \$242 | SAB      | 5.0      | 1.9     | 6.0     | 5.1     | 4.6      | 11.6    | 14             |               |     |
|     | 1075 | 208-230 | 3851           | \$104 | SAB      | 5.0      | 1.7     | 5.0     | 4.4     | 3.8      | 9.9     | 14             | 62            |     |
| 1/4 | 1110 | 208-230 | 8230           | \$126 | SAB      | 5.0      | 1.6     | 3.3     | -       | 3.8      | 7.1     | 10             | 63,72,H33,H42 |     |
| 1/3 | 825  | 230     | 8667           | \$253 | SAB      | 7.5      | 2.0     | 6.0     | 5.6     | 5.1      | 12.1    | 16             | 63            |     |
|     | 1075 | 208-230 | 6880           | \$113 | SAB      | 5.0      | 2.5-2.2 | 5.0     | 4.9     | 4.3      | 9.4     | 12             | 62            |     |
| 1/2 | 1075 | 208-230 | 3852           | \$121 | SAB      | 7.5      | 3.1     | 5.0     | 5.4     | 4.8      | 10.9    | 15             | 62            |     |
|     | 1075 | 230     | 1444           | \$182 | Ball     | 7.5      | 3.1     | 6.0     | 5.6     | 5.1      | 12.2    | 18             |               |     |
| 3/4 | 1075 | 208-230 | 3097           | \$148 | SAB      | 10.0     | 4.7     | 5.0     | 6.6     | 6.1      | 12.1    | 20             |               |     |
|     | 1075 | 230     | 8665           | \$204 | Ball     | 12.5     | 4.4     | 6.0     | 5.9     | 5.3      | 12.4    | 23             |               |     |
| 1   | 1075 | 208-230 | 1888           | \$358 | Ball     | 15.0     | 5.2     | 6.0     | 6.8     | 6.3      | 13.4    | 25             | 62            |     |

TR = Trane®†

Note 62 Not an ECONOMIZER® Motor  
 Note 63 Stud Extensions out Both Sides of Motor  
 Note 72 Includes Q-4 holes in shell for Rheem®† Mount

Note H33 No Hub on Lead End  
 Note H42 Shaft-end Ventilated, Lead-end Enclosed, Shaft-down Mounting Only

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Condenser Fan 5.6" Diameter, Open Dripproof, Air Over

## APPLICATIONS:

For use on condenser cooling fans.

## FEATURES:

- High Efficiency ECONOMIZER® Rated (except as noted)
- 20" or 30" Leads unless otherwise noted
- Double Flats On Shaft (ECONOMIZER® Models)
- Capacitor Mounting Holes In Frame Band
- Suitable for Use With 370V Capacitors
- Automatic Reset Thermal Overload Protector
- Bearings Have All Angle Thrust System
- Enclosed Endshield at Shaft End
- Continuous Duty, Air Over
- Class B Insulation
- Green Ground Lead
- Extended Studs
- 60 Hertz
- Reversible Rotation
- Water Slinger
- Discount Symbol: DS-3HAC

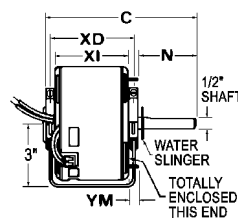
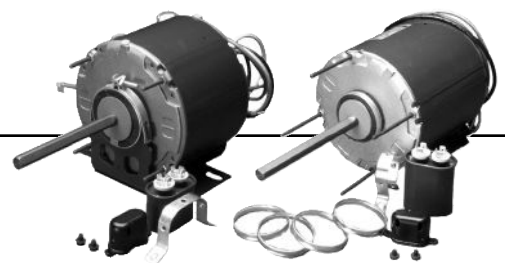


Figure A

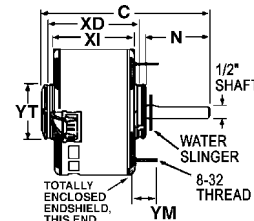


Figure B

## Resilient Base, Shaft Up or Horizontal With Capacitor

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes | OEM |
|-----|------|---------|----------------|-------|----------|----------|------|---------|---------|----------|---------|---------|----------------|-------|-----|
| 1/4 | 1075 | 230     | 3846           | \$257 | SAB      | 5.0      | 1.9  | 4.9     | 5.1     | 4.6      | 10.4    | 1       | 15             | 62    |     |
| 1/3 | 1625 | 230     | 4811           | \$259 | SAB      | 5.0      | 1.8  | 4.9     | 5.1     | 4.6      | 10.7    | 1       | 16             |       |     |
|     | 1625 | 230     | 4961           | \$360 | Ball     | 5.0      | 1.8  | 4.9     | 5.1     | 4.6      | 10.7    | 1       | 17             | 62    |     |
|     | 1075 | 230     | 3847           | \$269 | SAB      | 7.5      | 2.2  | 4.9     | 5.5     | 4.9      | 10.9    | 1       | 16             |       |     |
|     | 1075 | 230     | 4960           | \$295 | Ball     | 7.5      | 2.2  | 4.9     | 5.4     | 4.8      | 10.9    | 1       | 16             |       |     |
| 1/2 | 1075 | 230     | 3848           | \$280 | SAB      | 7.5      | 3.1  | 5.0     | 6.5     | 5.9      | 12.0    | 1       | 19             |       |     |
|     | 1075 | 230     | 7025           | \$349 | Ball     | 7.5      | 3.1  | 4.9     | 6.4     | 6.0      | 11.9    | 1       | 18             |       |     |

## Hub Ring Mount (2 1/4"), Shaft Up or Horizontal, Without Capacitor (unless otherwise noted)

| HP        | RPM  | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps    | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes | OEM |
|-----------|------|---------|----------------|-------|----------|----------|---------|---------|---------|----------|---------|---------|----------------|-------|-----|
| 1/5 / 1/6 | 1075 | 208-230 | 8537           | \$144 | SAB      | 5.0      | 1.4/1.8 | 3.31    | 4.1     | 3.56     | 7.4     | -       | 10             | 62    | RH  |
| 1/3       | 825  | 230     | 5345           | \$267 | Ball     | 5.0      | 3.0     | 6.0     | 6.4     | 6.4      | 12.9    | 1       | 19             | 64    |     |
|           | 825  | 208-230 | 7040           | \$242 | Ball     | 7.5      | 2.7     | 6.0     | 6.0     | 6.0      | 12.4    | 1       | 18             |       |     |
| 1/2       | 825  | 208-230 | 7041           | \$358 | Ball     | 12.5     | 2.8     | 6.0     | 5.8     | 5.8      | 13.2    | 1       | 21             |       |     |

RH = Rheem®

Note 62 Not an ECONOMIZER® Motor  
Note 64 Capacitor Supplied Detached

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Commercial Condenser Fan Open Dripproof & Totally Enclosed, Air Over

## APPLICATIONS:

For use on condenser cooling fans in commercial air conditioning applications.

## FEATURES:

- Capacitor & Outlet Box Included, unless noted
- Reversible Rotation
- Double-Sealed Ball Bearing
- Continuous Duty, Air Over
- 60°C Ambient
- Dual Voltage
- Class B insulation
- Discount Symbol: DS-3HAC

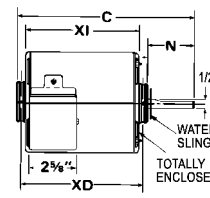
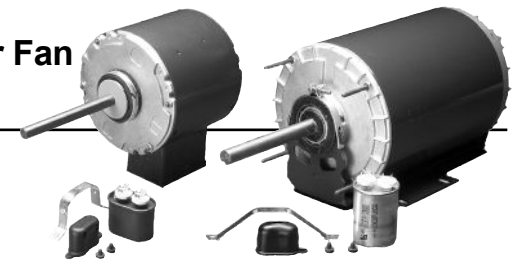


Figure A

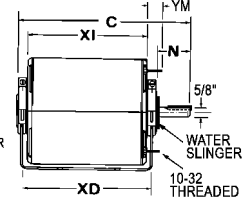


Figure B

## 5.6" Diameter, All Angle Mounting, Hub Ring Mount (2-1/4") (Figure A)

| HP  | RPM  | Voltage     | Catalog Number | List  | Bearings | Cap. MFD | Amps    | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes     | OEM |
|-----|------|-------------|----------------|-------|----------|----------|---------|---------|---------|----------|---------|---------|----------------|-----------|-----|
| 1/3 | 1075 | 208-230/460 | 6727           | \$287 | Ball     | 5.0      | 2.4/1.2 | 5.0     | 5.9     | 5.3      | 11.4    | N/A     | 17             |           |     |
| 1/2 | 1075 | 208-230/460 | 7475           | \$366 | Ball     | 10.0     | 2.8/1.4 | 5.0     | 6.4     | 5.8      | 11.9    | N/A     | 20             |           |     |
|     | 1075 | 208-230/460 | 2201           | \$413 | Ball     | 10.0     | 3.2     | 5.0     | 7.4     | 6.8      | 12.8    | N/A     | 20             | 67        |     |
|     | 1075 | 208-230     | 8868           | \$241 | Ball     | 10.0     | 3.8-2.5 | 3.0     | --      | 6.3      | 9.3     | 0.63    | 21             | H15,H44   |     |
| 3/4 | 1075 | 208-230/460 | 2202           | \$404 | Ball     | 12.5     | 4.8     | 5.0     | 8.4     | 7.8      | 13.8    | N/A     | 23             | 66,67     |     |
|     | 1075 | 208-230/460 | 6603           | \$428 | Ball     | 7.5      | 5.0/2.5 | 5.0     | 6.9     | 6.3      | 12.4    | N/A     | 22             | 66,H16    |     |
|     | 1075 | 208-230/460 | 5489           | \$428 | Ball     | 7.5      | 5.0/2.5 | 5.0     | 6.9     | 6.3      | 12.3    | N/A     | 22             | 65,66,H15 |     |
|     | 1100 | 460         | 8233           | \$313 | Ball     | 12.5     | 2.3     | 3.0     | 6.6     | 6.0      | 10.2    | N/A     | 19             | 65,66,H15 | AA  |
| 1   | 1080 | 460         | 8055           | \$532 | Ball     | 15.0     | 2.5     | 5.0     | --      | 6.6      | 11.6    | N/A     | 20             | H16,H29   | LE  |

## 6.3" Diameter, All Angle Mounting, Hub or Stud Mount (4) (Figure A with 5/8" shaft)

| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | Cap. MFD | Amps        | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes     | OEM |
|-------|------|-------------|----------------|-------|----------|----------|-------------|---------|---------|----------|---------|---------|----------------|-----------|-----|
| 1/2   | 825  | 208-230     | 3568           | \$482 | Ball     | 10.0     | 3.6         | 6.0     | 7.0     | 6.0      | 13.4    | 1.5     | 25             | 65,66,H15 |     |
| 3/4   | 1075 | 208-230     | 3566           | \$516 | Ball     | 15.0     | 3.8         | 6.0     | 7.0     | 6.0      | 13.4    | 1.5     | 26             | 65,66,H15 |     |
|       | 825  | 208/230     | 3567           | \$563 | Ball     | 17.5     | 5.3         | 6.0     | 8.2     | 7.8      | 14.6    | 1.5     | 32             | 65,66,H15 |     |
| 1     | 1075 | 208-230     | 3565           | \$458 | Ball     | 17.5     | 5.2         | 6.0     | 7.5     | 6.5      | 13.9    | 1.5     | 30             | 65,66,H15 |     |
|       | 1075 | 208-230/460 | 2203           | \$455 | Ball     | 17.5     | 5.2/2.6     | 6.0     | 10.4    | 9.9      | 16.9    | 1.5     | 40             | 67        |     |
|       | 1075 | 208-230/460 | 8431           | \$428 | Ball     | 12.5     | 5.8-5.4/2.7 | 6.0     | 9.9     | 9.4      | 16.4    | 1.8     | 41             | 65,67     |     |
| 1 1/2 | 1075 | 208-230/460 | 2204           | \$472 | Ball     | 20.0     | 7.6/3.8     | 6.0     | 10.9    | 10.3     | 16.9    | 1.5     | 43             | 67        |     |

## 6.3" Diameter, Resilient Base (Figure B)

| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | Cap. MFD | Amps    | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes   | OEM |
|-------|------|-------------|----------------|-------|----------|----------|---------|---------|---------|----------|---------|---------|----------------|---------|-----|
| 3/4   | 1100 | 208-230/460 | *2193          | \$728 | Ball     | 30.0     | 4.8/2.5 | 4.1     | 8.3     | 7.8      | 13.1    | --      | 41             | H15,H16 |     |
| 1     | 1075 | 208-230/460 | 2686           | \$569 | Ball     | 17.5     | 5.1/2.6 | 5.0     | 10.5    | 9.3      | 15.8    | 1.5     | 38             | 68      |     |
| 1 1/2 | 1075 | 208-230/460 | 2896           | \$609 | Ball     | 20.0     | 7.5/3.8 | 5.0     | 11.0    | 9.8      | 16.3    | 1.5     | 47             | 67,68   |     |

AA = Aaron®† LE = Lennox®†

\*440V Capacitor

- Note 65 Ventilated (in wet applications, position vent holes at bottom of motor; use rain shield if mounted shaft up)  
 Note 66 No outlet box, Includes leads  
 Note 67 Capacitor not included, internal conduit box  
 Note 68 Quick Change Voltage Receptacle, no outlet box

- Note H15 Capacitor not included  
 Note H16 CCWLE rotation only  
 Note H29 Includes rain shield, shaft up mounting  
 Note H44 Stud mount

† All marks shown within this document are properties of their respective owners.





# Three Phase Commercial Condenser Fan Open Dripproof, Air Over

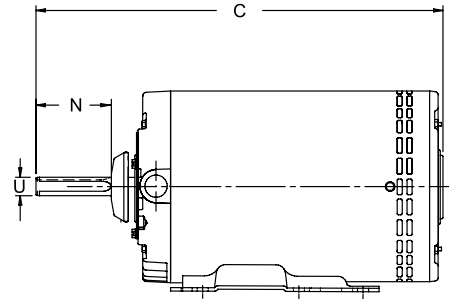


## APPLICATIONS:

To meet manufacturer's requirements for condenser cooling fans in commercial air conditioning applications where 3 phase power is required.

## FEATURES:

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty, Air Over
- Double-Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 140°F (60°C) Ambient Rated
- Shaft-Up Mounting
- Discount Symbol: DS-3HAC



## Belly Band Mount, Flat and Keyway on Shaft

| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps        | Shaft N | Shaft U | SF   | Total C | Ship Wt. (lbs) | Notes | OEM |
|-------|------|-------------|----------------|-------|----------|-------------------------|-------------|---------|---------|------|---------|----------------|-------|-----|
| 3/4   | 1140 | 208-230/460 | 1817           | \$389 | Ball     | 56Z                     | 3.2/1.6     | 6.0     | 0.625   | 1.00 | 16.8    | 28             |       |     |
| 1     | 1140 | 208-230/460 | 1818           | \$411 | Ball     | 56Z                     | 4.0/2.0     | 6.0     | 0.625   | 1.00 | 16.8    | 29             |       |     |
|       | 1140 | 200-230/460 | 1816           | \$417 | Ball     | 56Z                     | 6.0/3.0     | 5.0     | 0.625   | 1.00 | 14.5    | 19             |       | DB  |
|       | 1140 | 200-230/460 | 1326           | \$485 | Ball     | 48Y                     | 3.5-3.3/1.7 | 3.0     | 0.625   | 1.00 | 13.6    | 35             |       | CA  |
|       | 1140 | 200-230/460 | 8058           | \$462 | Ball     | 56Z                     | 3.6/1.8     | 3.4     | 0.625   | 1.00 | 13.7    | 30             |       | LE  |
|       | 850  | 208-230/460 | 1828           | \$542 | Ball     | 56Z                     | 5.0/2.5     | 6.0     | 0.625   | 1.00 | 17.2    | 33             |       |     |
|       | 850  | 575         | 1829           | \$696 | Ball     | 56Z                     | 2.1         | 6.0     | 0.625   | 1.00 | 17.2    | 33             |       |     |
| 1 1/2 | 1140 | 208-230/460 | 1819           | \$453 | Ball     | 56Z                     | 6.2/3.1     | 6.0     | 0.625   | 1.00 | 16.8    | 36             |       |     |
| 2     | 1140 | 208-230/460 | 8987           | \$492 | Ball     | 56Z                     | 7.8/3.9     | 6.0     | 0.625   | 1.00 | 16.8    | 43             |       |     |

## Rigid Base Mount, Flat and Keyway on Shaft

| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps    | Shaft N | Shaft U | SF   | Total C | Ship Wt. (lbs) | Notes | OEM |
|-------|------|-------------|----------------|-------|----------|-------------------------|---------|---------|---------|------|---------|----------------|-------|-----|
| 1     | 1140 | 208-230/460 | 1820           | \$411 | Ball     | 56YZ                    | 4.0/2.0 | 6.0     | 0.625   | 1.00 | 16.8    | 32             |       |     |
| 1 1/2 | 1140 | 208-230/460 | 1821           | \$458 | Ball     | 56YZ                    | 6.2/3.1 | 6.0     | 0.625   | 1.00 | 16.8    | 39             |       |     |
| 2     | 1140 | 208-230/460 | 1822           | \$500 | Ball     | 56YZ                    | 7.8/3.9 | 6.0     | 0.625   | 1.00 | 17.3    | 45             |       |     |

CA = Carrier<sup>®</sup>† DB = Dunham Bush<sup>®</sup>† LE = Lennox<sup>®</sup>†

† All marks shown within this document are properties of their respective owners.



## Three Phase VariTough® Inverter Duty Commercial Condenser Fan, Open Dripproof, Air Over

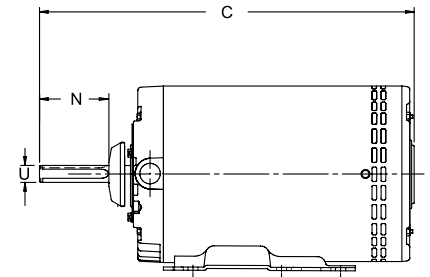


### APPLICATIONS:

For use on condenser cooling fans in commercial air conditioning applications, where 3 phase power and variable frequency drives (VFD's) are required.

### FEATURES:

- Inverter Duty
- Designed to NEMA®† MG1-Part 31
- Open Dripproof, Shaft-Up Design
- 70°C Ambient
- Continuous Duty, Air Over
- Lock Bearing System OSE
- Class F Insulation
- Thermostat Temperature Protection
- Use Kit 21 for Shaft Grounding Option
- **Discount Symbol: DS-3HAC**



### Belly Band Mount

| HP    | RPM  | Voltage     | Catalog Number | List  | NEMA®† Frame | Amps        | Shaft N | Shaft U | Total C | Ship Wt. (lbs) |
|-------|------|-------------|----------------|-------|--------------|-------------|---------|---------|---------|----------------|
| 1     | 825  | 208-230/460 | 1830V          | \$518 | 56YZ         | 5.2-5.2/2.6 | 3.25    | 0.625   | 15.8    | 33             |
|       | 850  | 208-230/460 | 1828V          | \$534 | 56YZ         | 5.0-5.0/2.5 | 6.0     | 0.625   | 16.8    | 42             |
|       | 1140 | 208-230/460 | 1818V          | \$510 | 56YZ         | 4.3-4.3/2.1 | 6.0     | 0.625   | 15.8    | 33             |
| 1 1/2 | 850  | 208-230/460 | 1832V          | \$545 | 56HZ         | 6.6-6.2/3.1 | 3.5     | 0.625   | 15.8    | 37             |
|       | 1140 | 208-230/460 | 1819V          | \$580 | 56YZ         | 5.3-5.3/2.6 | 6.0     | 0.625   | 16.3    | 40             |
| 2     | 1140 | 208-230/460 | 8987V          | \$635 | 56YZ         | 7.8-7.8/3.9 | 6.0     | 0.625   | 17.3    | 43             |

### Rigid Base Mount

| HP    | RPM  | Voltage     | Catalog Number | List  | NEMA®† Frame | Amps        | Shaft N | Shaft U | Total C | Ship Wt. (lbs) |
|-------|------|-------------|----------------|-------|--------------|-------------|---------|---------|---------|----------------|
| 1     | 850  | 208-230/460 | 1833V          | \$469 | 56YZ         | 5.0-5.0/2.5 | 6.0     | 0.625   | 16.8    | 38             |
|       | 1140 | 208-230/460 | 1820V          | \$530 | 56YZ         | 4.3-4.3/2.1 | 6.0     | 0.625   | 15.8    | 34             |
| 1 1/2 | 850  | 208-230/460 | 1831V          | \$660 | 56HZ         | 6.6-6.2/3.1 | 3.5     | 0.625   | 15.8    | 40             |
|       | 1140 | 208-230/460 | 1821V          | \$600 | 56YZ         | 5.3-5.3/2.6 | 6.0     | 0.625   | 16.3    | 41             |
| 2     | 1140 | 208-230/460 | 1822V          | \$655 | 56YZ         | 7.8-7.8/3.9 | 6.0     | 0.625   | 17.3    | 44             |

For shaft grounding kit, order kit 21. See pages 188-189.

† All marks shown within this document are properties of their respective owners.



# Three Phase Commercial Belt-Drive Blower Motor Open Dripproof, Air Over Not Required

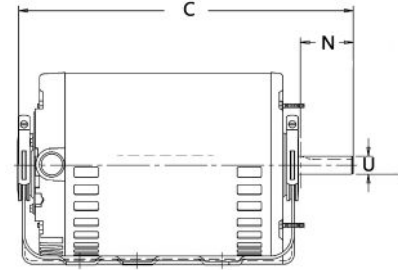


## APPLICATIONS:

To meet manufacturer's requirements for belt-drive blowers in commercial air conditioning applications where 3 phase power is required.

## FEATURES:

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty
- Double Contact Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 104°F (40°C) Ambient Rated
- **Discount Symbol: DS-3HAC**



## Rigid Base Mount

| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA®† | Amps        | Shaft N | Shaft U | SF   | Total C | Ship Wt. (lbs) | Notes      | OEM |
|-------|------|-------------|----------------|-------|----------|--------|-------------|---------|---------|------|---------|----------------|------------|-----|
| 1     | 1725 | 208-230/460 | 1813           | \$450 | Ball     | 56     | 3.4/1.7     | 1.9     | 0.625   | 1.15 | 11.9    | 24             | VC         |     |
| 1 1/2 | 1725 | 208-230/460 | 1814           | \$508 | Ball     | 56H    | 5.0/2.5     | 1.9     | 0.625   | 1.15 | 12.4    | 27             | VC,H12     |     |
|       | 1725 | 200-230/460 | 7913           | \$504 | Ball     | 56HZ   | 5.0/2.5     | 2.3     | 0.875   | 1.15 | 12.4    | 39             |            | LE  |
| 2     | 1725 | 208-230/460 | 1815           | \$554 | Ball     | 56     | 6.6/3.3     | 1.9     | 0.625   | 1.15 | 12.4    | 29             | VC         |     |
|       | 1725 | 200-230/460 | 7914           | \$539 | Ball     | 56HZ   | 7.6-7.8/3.9 | 2.3     | 0.875   | 1.15 | 12.4    | 45             |            | LE  |
|       | 1725 | 208-230/460 | 8461           | \$809 | Ball     | 145T   | 6.7-6.3/3.2 | 2.3     | 0.875   | 1.00 | 12.5    | 37             | 25,H18,H45 |     |
| 3     | 1725 | 200-230/460 | 7915           | \$666 | Ball     | 56HZ   | 9.0-9.2/4.6 | 2.3     | 0.875   | 1.15 | 13.3    | 48             |            | LE  |

## Resilient Mount

| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA®† | Amps         | Shaft N | Shaft U | SF   | Total C | Ship Wt. (lbs) | Notes | OEM |
|-------|------|-------------|----------------|-------|----------|--------|--------------|---------|---------|------|---------|----------------|-------|-----|
| 1/2   | 1725 | 208-230/460 | 8488           | \$501 | Ball     | 56     | 2.0-1.9/0.95 | 1.9     | 0.625   | 1.25 | 10.3    | 20             |       |     |
| 3/4   | 1725 | 208-230/460 | 8489           | \$550 | Ball     | 56     | 2.9-2.9/1.5  | 1.9     | 0.625   | 1.25 | 10.8    | 22             |       |     |
| 1     | 1725 | 208-230/460 | 8498           | \$485 | Ball     | 56H    | 4.3/2.2      | 1.9     | 0.625   | 1.25 | 11.3    | 26             |       |     |
| 1 1/2 | 1725 | 200-230/460 | 8490           | \$609 | Ball     | 56H    | 5.2-5.1/2.6  | 1.9     | 0.625   | 1.15 | 12.8    | 32             |       |     |
|       | 1725 | 208-230/460 | 8491           | \$781 | Ball     | 145T   | 5-4.6/2.4    | 2.3     | 0.875   | 1.15 | 13.2    | 40             |       |     |
| 2     | 1725 | 208-230/460 | 8493           | \$699 | Ball     | 56H    | 6.1-6.3/3.1  | 1.9     | 0.625   | 1.15 | 12.8    | 41             |       |     |

LE = Lennox®†

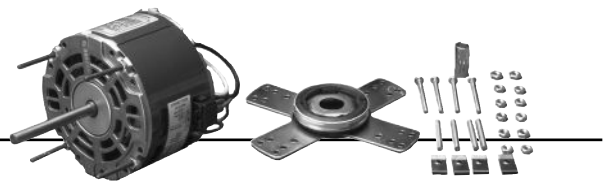
Note 25 No protector  
Note H8 5.6" Diameter  
Note H12 Base has Holes For 56 & 56H

Note H18 Conduit Box  
Note H45 Totally Enclosed, Air Over  
Note VC Quick Change Voltage Device

† All marks shown within this document are properties of their respective owners.



## 21/29 Frame Replacement Motor 5.0" Diameter, Open Dripproof, Air Over

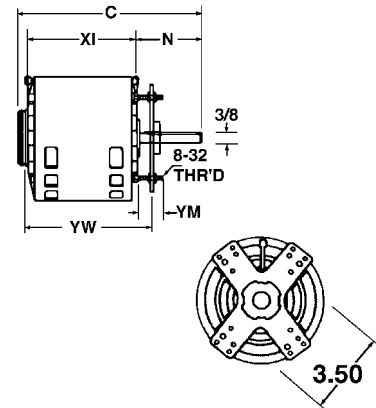


### APPLICATIONS:

To replace most original 21 and 29 frame GE<sup>®</sup>† motors.

### FEATURES:

- Four Motors Replace Most Original 21 Frame GE<sup>®</sup>† Motors (see below)
- P in Catalog Number Indicates Permanent Split Capacitor, Capacitor Included
- Self Aligning Bearings
- Holes Provided For Attaching a BX Connector
- Resilient Hub Rings, 2 1/4" Diameter
- Rotation CCW Lead End Except 1468P
- 30" Leads
- Dual Voltage Easily Changed By Quick Connects
- Class B insulation
- 3/8" Diameter Shafts With 1/2" Adapters
- Extended Thru-Bolts
- Automatic Reset Thermal Overload Protector
- Mounting Bracket Provided At Shaft End
- Can be Moved on Extended Thru-Bolts to Fit Most Existing Bases
- Has Mounting Holes and Bolts to Match 21 Frame Bolt Circle for Stud Mounting
- Can be Resilient Mounted, Band Mounted or End Mounted
- Discount Symbol: DS-3HAC**



### Hub Mount Bracket (2-1/4") Single Speed

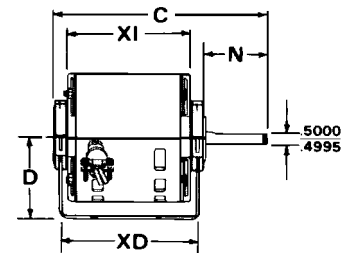
| HP   | RPM  | Voltage     | Catalog Number | List  | Bearings | Amps    | Shaft N | Shaft Dia. | Shell XI | Total C | Stud YM | Max. Ext. YW | Ship Wt. (lbs) | Notes |
|------|------|-------------|----------------|-------|----------|---------|---------|------------|----------|---------|---------|--------------|----------------|-------|
| 1/20 | 1550 | 115/208-230 | 1468P          | \$172 | SAB      | 2.2/1.1 | 3.3     | 0.375      | 3.3      | 7.1     | 1.5     | 5.6          | 7              |       |
| 1/15 | 1550 | 115/208-230 | 1469P          | \$192 | SAB      | 2.8/1.4 | 3.5     | 0.375      | 3.3      | 7.4     | 1.5     | 5.8          | 7              | H20   |
| 1/10 | 1550 | 115/208-230 | 1470P          | \$143 | SAB      | 3.8/1.9 | 3.5     | 0.375      | 3.6      | 7.6     | 1.5     | 6.1          | 7              |       |
|      | 1050 | 115/208-230 | 1471P          | \$196 | SAB      | 3.8/1.9 | 3.3     | 0.375      | 3.8      | 7.6     | 1.5     | 6.1          | 7              |       |

### Replacement Cross Reference

| Catalog Number | GE <sup>®</sup> † Number                                       |
|----------------|----------------------------------------------------------------|
| 1468P          | DG3001, DG3002, DG3003, DG3004, DG3021, DG3022, DG3023, DG3024 |
| 1469P          | FG3101, FG3102, FG3103, FG3104, FG3121, FG3122, FG3123, FG3124 |
| 1470P          | HG3201, HG3202, HG3203, HG3204, HG3221, HG3222, HG3223, HG3224 |
| 1471P          | HG3253, HG3254, HG3275, HG3263, HG3264                         |

### FEATURES:

- P in Catalog Number Indicates Permanent Split Capacitor, Capacitor Included
- 36" Leads
- CWLE Rotation
- Self Aligning Bearings
- Bearings Have All Angle thrust System
- BX Connector
- Class B insulation
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector
- Connection Instructions Included in Nameplate Data
- Green Ground Lead
- Discount Symbol: DS-3HAC**



### Resilient Base Single Speed

| HP   | RPM  | Voltage | Catalog Number | List  | Bearings | Frame | Amps | Shaft N | Shell XD | Shell XI | Total C | Ship Wt. (lbs) | Notes |
|------|------|---------|----------------|-------|----------|-------|------|---------|----------|----------|---------|----------------|-------|
| 1/10 | 1550 | 115/230 | 721P           | \$257 | SAB      | 42Y   | 2.6  | 2.4     | 3.9      | 3.3      | 6.9     | 9              |       |
| 1/6  | 1550 | 115/230 | 722P           | \$249 | SAB      | 42Y   | 2.7  | 2.4     | 4.4      | 3.8      | 7.4     | 11             |       |

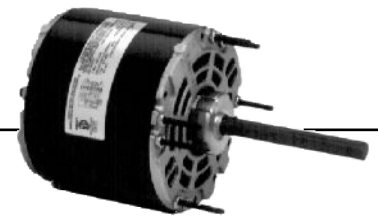
Note H20 Rotation CWLE

† All marks shown within this document are properties of their respective owners.



# Direct Drive Fan

## Single & Double Shaft 5.0" Diameter, Open Air Over



### APPLICATIONS:

To meet manufacturer's requirements for direct drive fans and blowers.

### FEATURES:

- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- 24" Line Leads Unless Otherwise Noted
- Automatic Reset Thermal Overload Protector
- Connection Information Furnished in the Nameplate Data
- Shaded Pole Design Except Where Noted
- Discount Symbol: DS-3HAC

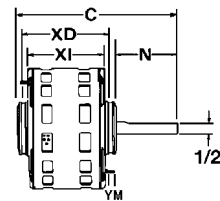


Figure A

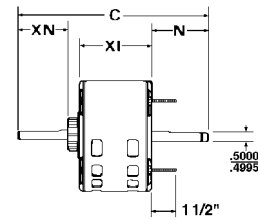


Figure B

### 5.0" Diameter, Stud or Hub Ring Mount (2.5") (Figure A)

| HP   | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes         | OEM |
|------|-----------|---------|----------------|-------|----------|-------------------------|------|---------|---------|----------|---------|---------|----------------|---------------|-----|
| 1/15 | 1050      | 115     | 1334           | \$134 | SAB      | 42Y                     | 2.8  | 1.9     | --      | 3.3      | 5.2     | 0.6     | 10             | 84,H3,H6,H16  |     |
|      | 1050      | 115     | 1335           | \$136 | SAB      | 42Y                     | 2.8  | 1.3     | 3.8     | 3.3      | 5.7     | --      | 12             | 35,84,H6,H16  |     |
|      | 1050      | 115     | 1342           | \$126 | SAB      | 42Y                     | 2.6  | 2.8     | --      | 3.8      | 6.6     | 0.6     | 10             | 84,H16,H19    |     |
|      | 1050/2    | 115     | 1333           | \$138 | SAB      | 42Y                     | 3    | 1.9     | --      | 3.3      | 5.2     | 0.6     | 11             | 84,H3,H16     |     |
| 1/10 | 1050      | 115     | 1336           | \$124 | SAB      | 42Y                     | 3.7  | 1.8     | --      | 3.8      | 5.7     | 0.6     | 11             | 84,H3,H6,H16  |     |
| 1/8  | 1050      | 115     | 1337           | \$129 | SAB      | 42Y                     | 5.5  | 5.0     | 5.0     | 4.5      | 10.4    | 0.9     | 13             | 84,H3,H16     |     |
| 1/6  | 1050      | 115     | 1127P          | \$101 | SAB      | 42Y                     | 3.0  | 4.0     | 5.0     | 4.3      | 9.4     | --      | 12             | 84,H3,H16,H38 |     |
|      | 1050      | 115     | 2166P          | \$198 | SAB      | 42Y                     | 5.2  | 3.5     | 4.5     | 3.8      | 8.9     | --      | 10             | 84,H16        | MI  |
| 1/5  | 1050      | 115     | 1340           | \$133 | SAB      | 42Y                     | 7.1  | 2.2     | 5.2     | 4.7      | 7.9     | 0.9     | 14             | 84,H3,H16     |     |
|      | 1050/3    | 115     | 1338P          | \$151 | SAB      | 42Y                     | 3.2  | 4.9     | 5.5     | 5.0      | 10.9    | 0.9     | 14             | 84,H3,H16,H38 |     |
|      | 1050/3    | 208-230 | 1339           | \$164 | SAB      | 42Y                     | 3.9  | 4.9     | 5.5     | 5.0      | 10.9    | 0.9     | 14             | 84,H3,H16     |     |
| 1/4  | 1050      | 115     | 1341           | \$134 | SAB      | 42Y                     | 8.9  | 2.6     | 5.7     | 5.2      | 8.7     | 0.9     | 15             | 84,H3,H16     |     |

### 5.0" Diameter, Resilient Base, Double Shaft (Figure B)

| HP   | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Rotation LE | Amps | Shaft N | Shaft XN | Shell XI | Total C | Ship Wt. (lbs) | Notes  | OEM |
|------|-----------|---------|----------------|-------|----------|-------------|------|---------|----------|----------|---------|----------------|--------|-----|
| 1/10 | 1050/2    | 115     | 2819           | \$123 | SAB      | CCW         | 3.7  | 4.0     | 4.0      | 3.8      | 14.3    | 10             |        |     |
|      | 1050/2    | 230     | 2820           | \$244 | SAB      | CCW         | 2.0  | 4.0     | 4.0      | 3.3      | 14.3    | 10             |        |     |
|      | 1050/4    | 115     | 2818           | \$196 | SAB      | CCW         | 4.8  | 8.4     | 8.4      | 4.6      | 22.4    | 11             |        |     |
|      | 1050/5    | 115     | 2827P          | \$265 | SAB      | CW          | 2.5  | 10.0    | 10.0     | 4.1      | 25.2    | 9              | H34    |     |
|      | 1550/3    | 115     | 2817           | \$273 | SAB      | CCW         | 3.8  | 8.4     | 8.4      | 4.6      | 22.4    | 8              |        |     |
| 1/6  | 1625/2    | 115     | 1238           | \$176 | SAB      | CCW         | 2.3  | 7.0     | 7.0      | 3.9      | 18.9    | 11             | H38    |     |
| 1/5  | 1075      | 208-230 | 1124           | \$209 | SAB      | CW          | 1.3  | 5.7     | 5.7      | 4.1      | 16.5    | 12             | H37    | YK  |
| 1/4  | 1550/3    | 230     | 1221P          | \$262 | SAB      | CCW         | 1.6  | 8.0     | 8.0      | 4.3      | 20.9    | 14             | H3,H21 |     |

MI = Miller<sup>®†</sup> YK = York<sup>®†</sup>

Note 35 Includes Base  
 Note 84 Non-reversible  
 Note H3 20" Leads  
 Note H6 3/8" Shaft  
 Note H16 Rotation CCWLE

Note H19 Conduit Box on Motor  
 Note H21 Figure B Type Includes Mounting Kit; Non-reversible  
 Note H34 Non-reversible; 54" Leads; Includes Resilient Base  
 Note H37 PSC; 5.0 MFD Capacitor Required  
 Note H38 PSC; Capacitor Included and Attached

<sup>†</sup> All marks shown within this document are properties of their respective owners.



## Permanent Split Capacitor Direct Drive Fan Single Shaft 5.0" Diameter Open, Air Over

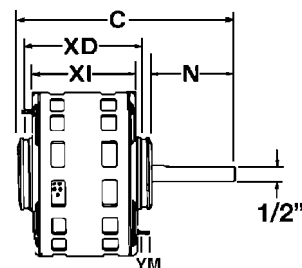


### APPLICATIONS:

To meet manufacturer's requirements for direct drive fan and blowers.

### FEATURES:

- Reversible Unless Noted
- Sleeve Bearings have All Angle Thrust System
- Suitable for Use With 370V Capacitors
- Continuous Duty, Air Over
- 24" Line Leads unless otherwise noted
- Automatic Reset Thermal Overload Protector
- Connection & Capacitor Information Furnished in Nameplate Data
- **Discount Symbol: DS-3HAC**



### Permanent Split Capacitor, 5.0" Diameter, Stud or Hub Ring Mount (2.5")

| HP  | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Bearings | Cap.<br>MFD | Amps | Shaft<br>N | Base<br>XD | Shell<br>XI | Total<br>C | Stud<br>YM | Ship Wt.<br>(lbs) | Notes |
|-----|---------------|---------|-------------------|-------|----------|-------------|------|------------|------------|-------------|------------|------------|-------------------|-------|
| 1/6 | 1075          | 115     | 6479              | \$162 | Sleeve   | 4.0         | 2.8  | 4.1        | --         | 3.8         | 7.9        | --         | 9                 | H11   |
| 1/5 | 1075/3        | 208-230 | 8952              | \$206 | Sleeve   | 5.0         | 1.6  | 4.0        | 5.3        | 4.9         | 9.9        | --         | 11                |       |
|     | 1075/4        | 115     | 1268              | \$150 | Sleeve   | 4.0         | 3.4  | 3.5        | 4.6        | 4.1         | 8.7        | 1          | 10                | 98    |
| 1/4 | 1075          | 115     | 6480              | \$112 | Sleeve   | 7.5         | 4    | 5.0        | --         | 4.1         | 9.1        | --         | 9                 | H11   |
|     | 1050/3        | 115     | 1390              | \$160 | Sleeve   | 7.5         | 2.8  | 4.0        | 4.9        | 4.3         | 8.9        | 1          | 13                | H24   |
|     | 1050/3        | 208-230 | 1391              | \$163 | Sleeve   | 7.5         | 1.5  | 4.0        | 4.9        | 4.3         | 8.9        | 1          | 13                | H24   |
| 1/3 | 1075/3        | 115     | 8955              | \$136 | Sleeve   | 15.0        | 3.8  | 4.0        | 5.1        | --          | 10.2       | 0.75       | 13                |       |

Note 98 Class B Insulation

Note H11 Band Mounting

Note H24 Hub Rings Not Included

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Packaged Terminal A/C Heat Pump 5.0" Diameter, Open Air Over



## APPLICATIONS:

To meet manufacturer's requirements for use in package terminal air conditioners or heat pump units.

## FEATURES:

- Bearings Have All Angle Thrust System
- Suitable for Use With 370V Capacitors
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector
- Discount Symbol: DS-3HAC

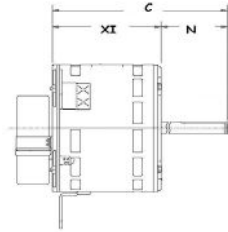


Figure A

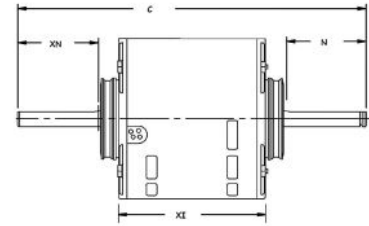


Figure B

## Single Shaft, Direct Drive Blower (Figure A)

| HP   | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Bearings | Cap.<br>MFD | Amps | Shaft<br>N | Shell<br>XI | Total<br>C | Mount     | Ship Wt.<br>(lbs) | Notes | OEM |
|------|---------------|---------|-------------------|-------|----------|-------------|------|------------|-------------|------------|-----------|-------------------|-------|-----|
| 1/30 | 1100/3        | 115     | 1374              | \$250 | SAB      | 5.0         | 0.5  | 8.5        | 4.1         | 13.4       | Resilient | 10                | 64    | TR  |
|      | 1100/3        | 115-127 | 4125              | \$200 | SAB      | 4.0         | 0.53 | 8.0        | 4.1         | 13.7       | Resilient | 6                 | 64    | IE  |
|      | 1075/3        | 265     | 4126              | \$162 | SAB      | 3.0         | 0.39 | 7.0        | 3.8         | 10.8       | Flex      | 6                 |       | IE  |
| 1/20 | 1100/3        | 115     | 1676              | \$281 | SAB      | 5.0         | 0.55 | 8.7        | 3.3         | 13.1       | Resilient | 9                 | 64    | TR  |
|      | 1100/3        | 265     | 1965              | \$172 | SAB      | 4.0         | 0.45 | 3.5        | 4.3         | 7.8        | 3 Lugs    | 10                | R     | AM  |
|      | 1075/3        | 208-230 | 4136              | \$212 | SAB      | 5.0         | 0.55 | 6.5        | 4.1         | 10.6       | Flex      | 8                 |       | IE  |
|      | 1075/3        | 265     | 1959              | \$180 | SAB      | 3.0         | 0.4  | 6.5        | 4.1         | 10.6       | Flex      | 8                 |       | IE  |
|      | 1075/3        | 277     | 4137              | \$186 | SAB      | 4.0         | 0.55 | 6.5        | 3.4         | 9.9        | 3 Lugs    | 8                 |       | IE  |
| 1/16 | 850/3         | 277     | 1678              | \$190 | SAB      | 4.0         | 0.5  | 2.3        | 4.1         | 6.3        | 3 Lugs    | 12                | 64    | TR  |
| 1/15 | 1075/3        | 265     | 1961              | \$185 | SAB      | 4.0         | 0.6  | 7.0        | 3.8         | 10.8       | Flex      | 12                |       | IE  |
| 1/5  | 925/3         | 208-240 | 4129              | \$176 | SAB      | 6.0         | 1.9  | 7.0        | 4.6         | 11.6       | Flex      | 12                |       | IE  |
| 1/4  | 975/3         | 115     | 4130              | \$191 | SAB      | 12.5        | 6.0  | 7.0        | 4.8         | 11.8       | Flex      | 13                |       | IE  |
|      | 1050/3        | 277     | 1962              | \$201 | SAB      | 7.5         | 1.6  | 7.0        | 5.1         | 12.6       | Flex      | 13                |       | IE  |
|      | 1075/3        | 265     | 4131              | \$199 | SAB      | 10.0        | 1.6  | 5.25       | 4.8         | 10.1       | Flex      | 13                |       | IE  |

## Dual Shaft, Direct Drive Blower (Figure B)

| HP   | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Bearings | Cap.<br>MFD | Amps | Shaft<br>N | Shaft<br>XN | Shell<br>XI | Total<br>C | Mount     | Ship Wt.<br>(lbs) | Notes | OEM |
|------|---------------|---------|-------------------|-------|----------|-------------|------|------------|-------------|-------------|------------|-----------|-------------------|-------|-----|
| 1/15 | 1100/3        | 115     | 1090              | \$294 | SAB      | 5.0         | 0.80 | 9.7        | 10.8        | 3.8         | 25.4       | Resilient | 7                 |       | TR  |
| 1/12 | 1150/3        | 277     | 1960              | \$189 | SAB      | 5.0         | 0.69 | 7.6        | 8.3         | 4.3         | 21.2       | Hub Ring  | 9                 | 64    | IE  |
|      | 1375/3        | 115-127 | 4127              | \$206 | SAB      | 6.0         | 1.35 | 8.0        | 8.25        | 3.8         | 21.2       | Hub Ring  | 9                 | 64    | IE  |
| 1/8  | 1500/3        | 277     | 1964              | \$218 | SAB      | 4.0         | 0.8  | 7.8        | 8.3         | 4.1         | 21.2       | Resilient | 10                | 64    |     |
| 1/6  | 1450/3        | 115-127 | 1257              | \$221 | SAB      | 5.0         | 2.55 | 8.0        | 8.3         | 4.1         | 21.4       | Hub Ring  | 11                | 64    | IE  |
|      | 1625/4        | 115     | 8525              | \$239 | SAB      | 5.0         | 2.2  | 8.0        | 8.0         | 4.2         | 24.0       | Resilient | 12                |       |     |

AM = Amana<sup>®</sup> IE = IEC<sup>®</sup> TR = Trane<sup>®</sup>

Note 64 Capacitor Included  
Note R Reversible

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Packaged Terminal A/C Heat Pump 5.6" and 6.3" Diameter, Open Air Over



## APPLICATIONS:

For use in package terminal air conditioners or heat pump units.

## FEATURES:

- Bearings Have All Angle Thrust System
- Suitable for Use With 370V Capacitors
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector
- Discount Symbol: DS-3HAC

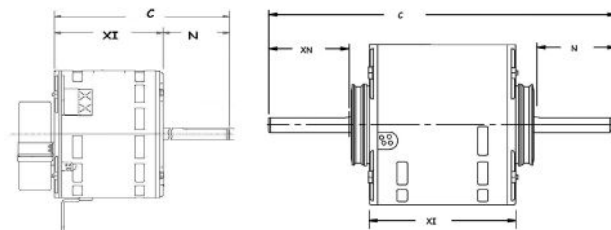


Figure A

Figure B

## 5.6" Diameter, Single Shaft, Direct Drive Blower (Figure A)

| HP   | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Bearings | Cap.<br>MFD | Amps | Shaft<br>N | Shaft<br>XN | Shell<br>XI | Total<br>C | Mount  | Ship Wt.<br>(lbs) | Notes | OEM |
|------|---------------|---------|-------------------|-------|----------|-------------|------|------------|-------------|-------------|------------|--------|-------------------|-------|-----|
| 1/12 | 1200/2        | 208-230 | 3033              | \$143 | SAB      | 4.0         | 0.56 | 4.5        | --          | 3.6         | 8.1        | 3 Lugs | 10                |       | AM  |

## 5.6" Diameter, Dual Shaft, Direct Drive Blower (Figure B)

| HP  | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Bearings | Cap.<br>MFD | Amps | Shaft<br>N | Shaft<br>XN | Shell<br>XI | Total<br>C | Mount         | Ship Wt.<br>(lbs) | Notes | OEM |
|-----|---------------|---------|-------------------|-------|----------|-------------|------|------------|-------------|-------------|------------|---------------|-------------------|-------|-----|
| 1/8 | 1075/3        | 277     | 1042              | \$206 | SAB      | 5.0         | 0.76 | 8.4        | 8.4         | 3.7         | 21.7       | Hub Ring      | 10                | LA    |     |
|     | 1040/3        | 277-265 | 3360              | \$212 | SAB      | 3.0         | 1.3  | 3.0        | 7.0         | 3.8         | 13.8       | Lug           | 12                |       | CA  |
| 1/4 | 1075/3        | 277     | 1043              | \$282 | SAB      | 5.0         | 1.5  | 7.5        | 7.8         | 4.4         | 20.1       | Stud/Hub Ring | 14                |       |     |

AM = Amana<sup>®†</sup> CA = Carrier<sup>®†</sup>

## PTAC OEM Cross Reference

| U.S. MOTORS <sup>®</sup><br>Catalog Number | OEM<br>Number | Industry<br>Number |
|--------------------------------------------|---------------|--------------------|
| 4127                                       | 700215-16     | 5KCP29BK6777S      |
| 4128                                       | 700215-17     | 5KCP29DK6774S      |
| 4130                                       | 700215-21     | 5KCP29MK6102S      |
| 4129                                       | 700215-42     | 5KCP29KK4878AS     |
| 4137                                       | 700215-45     | 5KCP29FK977S       |
| 1962                                       | 700215-48     | 5KCP29MK6109S      |
| 4125                                       | 700216-92     | 5KCP29BK5875S      |
| 4126                                       | 705563-07     | 5KCP29BK6016AS     |
| 1959                                       | 705563-08     | 5KCP29FK6017S      |
| 1961                                       | 705563-09     | 5KCP29DK6018S      |
| 4131                                       | 705563-12     | 5KCP29MK6021S      |
| 4136                                       | 705563-14     | 5KCP29FK6023S      |
| 1960                                       | 705563-26     | 5KCP29BK6366S      |
| 1965                                       | C61174-8      | 5KCP29FK2632S      |
| 1964                                       |               | 5KCP29CK8613S      |

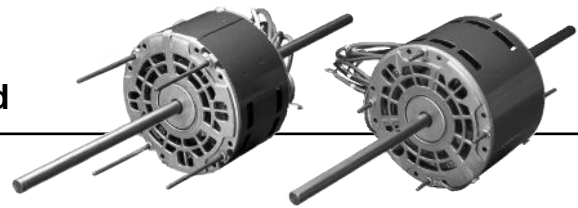
Note LA Limited Availability

† All marks shown within this document are properties of their respective owners.





# Permanent Split Capacitor Double Shaft Fan and Blower 5.6" Diameter, Two & Three Speed



## APPLICATIONS:

To meet manufacturer's requirements for blowers utilizing a double-shaft motor.

## FEATURES:

- Open Dripproof, Air Over Except Where Noted
- Automatic Reset Thermal Overload Protector
- CCW Rotation Lead End
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- Green Ground Lead
- Connection & Capacitor Information Furnished on Nameplate
- Suitable for Use With 370V Capacitors
- Hub Rings Are 2-1/4" Diameter, Furnished Detached, With Extra Metal Rings For Adapting To 2-1/2" Diameter
- Mounting Holes In Shell For Mounting Capacitor
- When Supplied, Capacitor & Mounting Hardware Are Supplied Detached
- 20" Leads
- Class B Insulation
- Multiplier Symbol: DS-3HAC

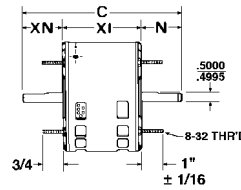


Figure A

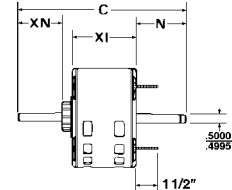


Figure B

## Stud Mount, Without Capacitor & Mounting Kit, ECONOMIZER® High Efficiency (Figure A)

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shaft XN | Shell XI | Total C | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|----------|----------|---------|----------------|-------|-----|
| 1/4 | 1625/3    | 230     | 8725           | \$262 | SAB      | 6.0      | 1.6  | 7.0     | 7.0      | 4.1      | 18.1    | 12             |       |     |
| 1/8 | 1075/3    | 115     | 1186           | \$259 | SAB      | 5.0      | 2.1  | 6.0     | 6.0      | 3.9      | 15.8    | 12             | H45   |     |
|     | 1075/3    | 208-230 | 1187           | \$263 | SAB      | 5.0      | 0.9  | 6.0     | 6.0      | 3.9      | 15.8    | 12             | H45   |     |
| 1/3 | 1625/3    | 230     | 8726           | \$271 | SAB      | 7.5      | 1.9  | 7.0     | 7.0      | 4.3      | 18.3    | 13             |       |     |

## Resilient Mounting With Capacitor and Mounting Kit, Two Speed (Figure B)

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shaft XN | Shell XI | Total C | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|----------|----------|---------|----------------|-------|-----|
| 1/4 | 1075/2    | 115     | 1244           | \$200 | SAB      | 5.0      | 4.4  | 7.0     | 7.0      | 4.4      | 19.4    | 16             | RB    |     |
|     | 1625/2    | 115     | 1242           | \$212 | SAB      | 3.0      | 3.6  | 7.0     | 7.0      | 3.9      | 18.9    | 13             | RB    |     |
|     | 1625/2    | 230     | 1243           | \$218 | SAB      | 3.0      | 1.8  | 7.0     | 7.0      | 3.9      | 18.9    | 12             | RB    |     |
| 1/2 | 1075/2    | 230     | 1248           | \$149 | SAB      | 5.0      | 3.3  | 7.0     | 7.0      | 4.9      | 19.9    | 19             | RB    |     |

## Hub or Stud Mount (Except Where Noted), With Capacitor and Mounting Kit, Three Speed (Figure B)

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shaft XN | Shell XI | Total C | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|----------|----------|---------|----------------|-------|-----|
| 1/6 | 1075/3    | 115     | 1240           | \$187 | SAB      | 5.0      | 2.9  | 7.0     | 7.0      | 3.7      | 18.7    | 12             | RB    |     |
| 1/5 | 1075/3    | 230     | 1152           | \$148 | SAB      | 5.0      | 1.4  | 5.1     | 5.1      | 3.8      | 13.4    | 13             |       | GB  |
| 1/3 | 1625/3    | 230     | 1887           | \$271 | SAB      | 5.0      | 2.2  | 8.0     | 8.0      | 4.3      | 20.8    | 13             |       |     |
|     | 1075/3    | 230     | 1213           | \$201 | SAB      | 5.0      | 2.5  | 8.0     | 8.0      | 4.3      | 20.1    | 18             |       |     |
|     | 1100/3    | 230     | 5108           | \$206 | SAB      | 5.0      | 2.3  | 4.3     | 4.3      | 4.3      | 14.2    | 16             |       | WP  |
|     | 1075/3    | 230     | 1247           | \$224 | SAB      | 5.0      | 2.5  | 7.0     | 7.0      | 4.7      | 19.7    | 18             | RB    |     |
| 1/2 | 1075/3    | 230     | 1824           | \$235 | SAB      | 5.0      | 4.5  | 8.0     | 8.0      | 5.4      | 22.0    | 19             |       |     |

## Hub or Stud Mount, Without Capacitor and Mounting Kit \*, Three Speed (Figure B)

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Shaft XN | Shell XI | Total C | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|----------|----------|---------|----------------|-------|-----|
| 1/8 | 1075/3    | 115     | 8523           | \$199 | SAB      | 5.0      | 2.1  | 7.0     | 7.0      | 3.7      | 20.1    | 11             |       |     |
| 1/6 | 1075/3    | 115     | 12160          | \$124 | SAB      | 5.0      | 3.0  | 8.0     | 8.0      | 3.6      | 20.1    | 11             |       |     |
| 1/4 | 1075/3    | 230     | 3134           | \$189 | SAB      | 5.0      | 2.0  | 8.0     | 8.0      | 4.6      | 20.1    | 13             |       |     |
| 1/3 | 1075/3    | 230     | 3135           | \$145 | SAB      | 5.0      | 2.5  | 8.0     | 8.0      | 4.6      | 21.1    | 14             |       |     |
| 1/2 | 1075/3    | 230     | 3136           | \$158 | SAB      | 5.0      | 4.5  | 8.0     | 8.0      | 5.4      | 22.0    | 20             |       |     |

GB = Gibson® WP = Whirlpool® \*To Make Resilient Mount, Order Kit Numbers 27 and 4. See Pages 188-189.

Note H45 Totally Enclosed Air Over

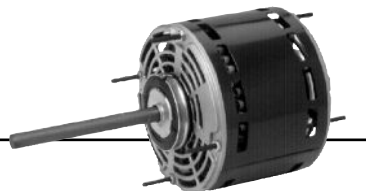
Note RB Resilient Mounting

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# Permanent Split Capacitor Direct Drive Fan and Blower

## 5.6" Diameter Open Air Over

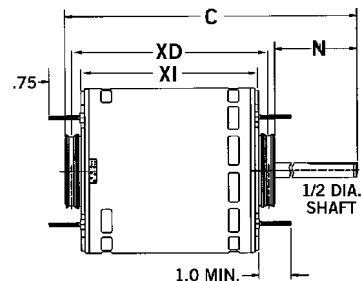


### APPLICATIONS:

Residential and commercial direct drive fans and blowers.

### FEATURES:

- Stud Extensions On Popular Models
- Suitable for Use With 370V Capacitors
- Class B Insulation
- 24" Leads
- Continuous Duty, Air Over
- SAB Bearings Have All Angle Thrust System
- Reversible Rotation
- For Flex Mount, Order Catalog #44; See Page 188-189.
- Automatic Reset Thermal Overload Protector
- Connection and Capacitor Information Furnished In Nameplate Data
- 2.5" Diameter Hub Rings Included
- **Discount Symbol: DS-3HAC**



### Hub Ring Mount (2.5") Except As Noted, Without Capacitor

| HP        | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Cap.<br>MFD | Amps    | Shaft<br>N | Base<br>XD | Shell<br>XI | Total<br>C | Ship Wt.<br>(lbs) | Notes  | OEM |
|-----------|---------------|---------|-------------------|-------|-------------|---------|------------|------------|-------------|------------|-------------------|--------|-----|
| 1/4       | 1075/3        | 115     | 1863              | \$112 | 7.5         | 3.5     | 5.0        | 4.9        | 4.3         | 10.4       | 12                |        |     |
|           | 1625/3        | 115     | 1690              | \$214 | 10.0        | 2.7     | 6.0        | 4.7        | 4.3         | 10.4       | 13                |        |     |
|           | 1075/3        | 208-230 | 1971              | \$114 | 7.5         | 1.5     | 5.0        | 4.9        | 4.3         | 10.4       | 11                |        |     |
|           | 1075/3        | 277     | 600               | \$236 | 4.0         | 2.0     | 5.0        | 5.1        | 4.6         | 10.7       | 14                | 69     |     |
| 1/3       | 1075/3        | 115     | 1864              | \$115 | 7.5         | 5.0     | 5.0        | 5.1        | 4.6         | 10.7       | 12                |        |     |
|           | 1625/3        | 115     | 1692              | \$220 | 15.0        | 3.7     | 5.0        | 5.1        | 4.6         | 10.7       | 13                |        |     |
|           | 1075/3        | 208-230 | 1972              | \$118 | 7.5         | 1.9     | 5.0        | 4.9        | 4.6         | 10.7       | 13                |        |     |
|           | 1075/3        | 277     | 601               | \$218 | 4.0         | 2.2     | 5.0        | 5.2        | 4.3         | 10.7       | 14                | 69     |     |
|           | 1625/3        | 208-230 | 1693              | \$150 | 5.0         | 2.1     | 5.0        | 5.1        | 4.7         | 10.4       | 13                |        |     |
| 1/3 / 1/9 | 825/2         | 208-230 | 5469              | \$218 | 7.5         | 2.4     | 4.5        | --         | 5.3         | 9.8        | 17                | 72     |     |
| 1/2       | 825/2         | 208-230 | 8064              | \$249 | 20.0        | 4.4     | 2.5        | 5.6        | 6.1         | 9.0        | 21                | 69     | LE  |
|           | 1075/3        | 115     | 1865              | \$139 | 10.0        | 6.5     | 4.0        | 6.0        | 5.4         | 10.4       | 19                |        |     |
|           | 1625/3        | 115     | 1694              | \$235 | 15.0        | 5.5     | 5.0        | 5.9        | 5.3         | 11.4       | 17                | A      |     |
|           | 1075/3        | 208-230 | 1973              | \$144 | 10.0        | 2.9     | 5.0        | 5.9        | 5.3         | 11.4       | 19                |        |     |
|           | 1075/3        | 277     | 602               | \$299 | 6.0         | 3.4     | 5.0        | 5.5        | 4.9         | 10.9       | 16                | 69     |     |
| 1/2 - 1/6 | 1075/3        | 208-230 | 1695              | \$240 | 7.5         | 3.1-3.0 | 5.0        | 5.9        | 5.3         | 11.4       | 17                |        |     |
|           | 1075/2        | 115     | 5460              | \$148 | 12.5/7      | 7.3     | 5.0        | 5.4        | 4.8         | 9.8        | 15                | 72     |     |
|           | 1075/2        | 208-230 | 5461              | \$151 | 10/5        | 3.6     | 5.0        | 5.4        | 4.8         | 9.8        | 15                | 72     |     |
|           | 1625/3        | 115     | 1696              | \$250 | 15.0        | 8.6     | 5.0        | 6.1        | 5.6         | 11.7       | 20                |        |     |
|           | 1625/3        | 208-230 | 1697              | \$255 | 10.0        | 4.4-4.2 | 5.0        | 6.1        | 5.6         | 11.7       | 18                | A      |     |
| 3/4       | 1075/3        | 115     | 8904              | \$159 | 15.0        | 9.5     | 4.0        | 6.0        | 5.4         | 10.4       | 19                | 69     |     |
|           | 1075/3        | 208-230 | 8905              | \$160 | 15.0        | 4.0     | 4.0        | 6.0        | 5.4         | 10.4       | 19                | 69     |     |
|           | 1075/3        | 277     | 5847              | \$298 | 15.0        | 4.1     | 4.9        | 6.7        | 5.6         | 13.2       | 19                |        |     |
|           | 1075/4        | 115     | 3340              | \$340 | 7.5         | 12.1    | 6.0        | 4.8        | 5.3         | 12.4       | 18                |        | CA  |
|           | 1075/2        | 115     | 5470              | \$177 | 20/10       | 8.1     | 5.0        | 6.6        | 6.1         | 11.6       | 22                | 72     |     |
| 3/4 - 1/5 | 1075/2        | 208-230 | 5471              | \$181 | 20/10       | 4.1     | 5.0        | 6.6        | 6.1         | 11.6       | 21                | 72     |     |
|           | 1075/4        | 115     | 6452              | \$221 | 15.0        | 11.2    | 5.0        | --         | 5.8         | 10.8       | 18                | 69,H11 |     |
| 1         | 1075/3        | 115     | 8906              | \$298 | 20.0        | 12.1    | 5.0        | 6.6        | 6.1         | 12.2       | 20                | H17    |     |
|           | 1075/3        | 208-230 | 8907              | \$301 | 20.0        | 5.6     | 5.0        | 6.6        | 6.1         | 12.2       | 21                | H17    |     |
|           | 1625/3        | 115     | 1699              | \$265 | 25.0        | 11.1    | 6.0        | 6.4        | 5.9         | 12.9       | 21                | H7     |     |

CA = Carrier<sup>®</sup> LE = Lennox<sup>®</sup>

Note 69 No Stud Extension  
 Note 72 Includes 4 Holes In Shell For Rheem<sup>®</sup> Mount  
 Note A Class A Insulation

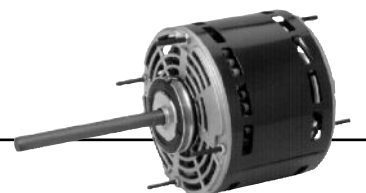
Note H7 36" Leads, 2.25" Diameter Hubs With 2.5" Diameter Kit Included  
 Note H11 Band Mount  
 Note H17 Class B Insulation, Studs Shaft Side Only, Ball Bearings

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor Direct Drive Fan and Blower

## 5.6" Diameter Open Air Over, High Efficiency

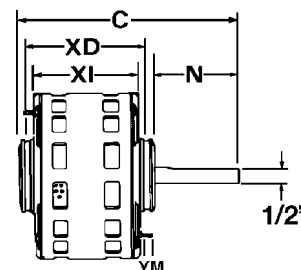


### APPLICATIONS:

To meet manufacturer's requirements for use on direct drive fans and blowers.

### FEATURES:

- Reversible Rotation (Unless Otherwise Noted)
- Class B Insulation
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- Suitable for Use With 370V Capacitors
- 36" Line Leads Unless Otherwise Noted
- High Efficiency ECONOMIZER® Motors
- Automatic Reset Thermal Overload Protector
- Connection & Capacitor Information Furnished in Nameplate Data
- When Furnished, The Capacitor And Its Mounting Hardware Is Supplied Detached
- 2.5" Diameter Hub Rings Included - See Notes
- Discount Symbol: DS-3HAC



### Stud or Hub Ring Mount (2.5"), Single Speed

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|---------|----------|---------|---------|----------------|-------|-----|
| 1/3 | 825       | 208-230 | 6873           | \$267 | Ball     | 5.0      | 2.7  | 4.5     | 6.4     | 5.8      | 11.4    | --      | 17             | H10   |     |

### Stud or Hub Ring Mount (2.5"), Two Speed

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|---------|----------|---------|---------|----------------|-------|-----|
| 1/4 | 1625/2    | 460     | 8944           | \$412 | Ball     | 5.0      | 0.8  | 6.0     | --      | 4.6      | 10.6    | 0.8     | 13             |       |     |
| 1/3 | 1075/2    | 460     | 8945           | \$472 | Ball     | 5.0      | 1.3  | 6.0     | 5.3     | 4.8      | 11.9    | 0.8     | 14             | 64    |     |
| 3/4 | 1075/2    | 460     | 8947           | \$504 | Ball     | 20.0     | 2.2  | 6.0     | 6.1     | 5.6      | 12.7    | 0.8     | 21             | 64    |     |

### Stud or Hub Ring Mount (2.5"), Three Speed

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes  | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|------|---------|---------|----------|---------|---------|----------------|--------|-----|
| 3/4 | 1075/3    | 460     | 8056           | \$403 | SAB      | 20.0     | 2.3  | 2.5     | 5.8     | 5.3      | 8.4     | --      | 19             | 62     | LE  |
| 1   | 1100/3    | 460     | 2553           | \$401 | SAB      | 25.0     | 3.3  | 3.5     | --      | 6.8      | 10.3    | --      | 20             | 62,H11 | YK  |

### Four Speed

| HP  | RPM/Spds. | Voltage | Catalog Number | List  | Bearings | Cap. MFD | Amps    | Shaft N | Base XD | Shell XI | Total C | Stud YM | Ship Wt. (lbs) | Notes     | OEM |
|-----|-----------|---------|----------------|-------|----------|----------|---------|---------|---------|----------|---------|---------|----------------|-----------|-----|
| 1/6 | 1075/4    | 115     | 5825           | \$140 | SAB      | 4.0      | 2.2     | 6.0     | 4.6     | 4.1      | 11.1    | 1.5     | 11             | H1        |     |
|     | 1075/4    | 208-230 | 5826           | \$141 | SAB      | 5.0      | 1.1-1.0 | 6.0     | 4.6     | 4.1      | 11.1    | 1.5     | 11             | H1        |     |
| 1/4 | 1075/4    | 115     | 5830           | \$141 | SAB      | 5.0      | 3.8     | 6.0     | 4.9     | 4.4      | 11.4    | 1.5     | 12             | H1        |     |
|     | 1075/4    | 208-230 | 5831           | \$145 | SAB      | 5.0      | 1.8-1.7 | 6.0     | 4.9     | 4.4      | 11.4    | 1.5     | 12             | H1        |     |
| 1/3 | 1075/4    | 115     | 5835           | \$159 | SAB      | 7.5      | 4.6     | 6.0     | 5.4     | 4.9      | 11.9    | 1.5     | 13             | H1        |     |
|     | 1075/4    | 208-230 | 5836           | \$160 | SAB      | 6.0      | 2.3-2.2 | 6.0     | 5.2     | 4.7      | 11.7    | 1.5     | 13             | H1        |     |
| 1/2 | 1075/4    | 115     | 5840           | \$171 | SAB      | 7.5      | 7.1     | 6.0     | 5.8     | 5.3      | 12.4    | 1.5     | 19             | H1        |     |
|     | 1075/4    | 208-230 | 5841           | \$183 | SAB      | 7.5      | 3.3-3.1 | 6.0     | 5.6     | 5.1      | 12.2    | 1.5     | 19             | H1        |     |
| 3/4 | 900/4     | 115     | 1125           | \$289 | SAB      | 10.0     | 11.9    | 4.0     | --      | 6.6      | 10.6    | --      | 20             | 62,H11    | IC  |
|     | 1075/4    | 115     | 5845           | \$227 | SAB      | 15.0     | 10.6    | 6.0     | 6.2     | 5.7      | 12.7    | 1.5     | 20             | H1        |     |
|     | 1075/4    | 115     | 3275           | \$246 | Ball     | 40.0     | 10.0    | 2.5     | 5.9     | 5.4      | 8.9     | --      | 17             | H2        | LE  |
|     | 1075/4    | 115     | 5463           | \$272 | Ball     | 15.0     | 10.6    | 5.0     | --      | 5.8      | 10.8    | --      | 20             | 62,72     | RH  |
|     | 1075/4    | 208-230 | 5846           | \$239 | SAB      | 10.0     | 6.1-5.8 | 6.0     | 6.2     | 5.7      | 12.7    | 1.5     | 20             | H1        |     |
| 1   | 1100/4    | 208-230 | 4670           | \$277 | SAB      | 20.0     | 6.0     | 5.0     | --      | 6.3      | 11.3    | --      | 20             | 62,84,H11 | IC  |

IC = ICP† LE = Lennox† RH = Rheem† YK = York†

Note 62 Not ECONOMIZER®  
 Note 64 Includes Capacitor Unmounted  
 Note 72 Includes 4 Holes In Shell For Rheem† Mount  
 Note 84 Non-Reversible

Note H1 2.25" Diameter Hub Rings With Kit For 2.5" Diameter Included  
 Note H2 2.5" Hub Rings  
 Note H10 50" Line Leads  
 Note H11 Band Mount

† All marks shown within this document are properties of their respective owners.



# Permanent Split Capacitor and Shaded Pole Flex Mount Direct Drive Fan and Blower 5.0" and 5.6" Diameter, Open Air Over

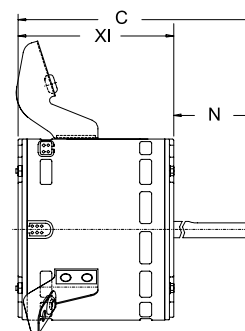


## APPLICATIONS:

To meet manufacturer's requirements for use on direct drive fans and blowers with flexible ear mounts.

## FEATURES:

- Class B Insulation Unless Noted
- 5.0" Diameter Motors CWLE Rotation
- 5.6" Diameter Motors Reversible Rotation
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- 24" Leads
- Automatic Reset Thermal Overload Protector
- PSC Motors Suitable for 370V Capacitors
- **Discount Symbol: DS-3HAC**



## Shaded Pole 5.0" Diameter

| HP  | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Cap.<br>MFD | Amps | Shaft<br>N | Shell<br>XI | Total<br>C | Ship Wt.<br>(lbs) | Notes | OEM |
|-----|---------------|---------|-------------------|-------|-------------|------|------------|-------------|------------|-------------------|-------|-----|
| 1/5 | 1050/1        | 115     | 2867P             | \$113 | --          | 3.0  | 3.8        | 4.5         | 8.3        | 10                | H22   | MI  |

## Permanent Split Capacitor 5.6" Diameter

| HP  | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Cap.<br>MFD | Amps | Shaft<br>N | Shell<br>XI | Total<br>C | Ship Wt.<br>(lbs) | Notes | OEM |
|-----|---------------|---------|-------------------|-------|-------------|------|------------|-------------|------------|-------------------|-------|-----|
| 1/4 | 1075/3        | 115     | 3783              | \$205 | 5.0         | 3.8  | 5.0        | 4.3         | 9.3        | 11                |       |     |
|     | 1075/3        | 208-230 | 3784              | \$218 | 5.0         | 1.7  | 5.0        | 4.3         | 9.3        | 10                | 80    |     |
| 1/3 | 825/3         | 208-230 | 8052              | \$191 | 15.0        | 1.9  | 2.5        | 4.8         | 7.3        | 14                |       | LE  |
|     | 1000/4        | 115     | 9377              | \$222 | 5.0         | 6.0  | 5.3        | 4.6         | 9.8        | 13                |       |     |
|     | 1075/3        | 115     | 3785              | \$214 | 7.5         | 5.0  | 5.0        | 4.6         | 9.8        | 13                |       |     |
|     | 1075/3        | 208-230 | 3786              | \$231 | 5.0         | 2.4  | 5.0        | 4.3         | 9.3        | 12                |       |     |
| 1/2 | 1075/3        | 115     | 3787              | \$245 | 10.0        | 7.4  | 5.0        | 5.6         | 10.7       | 18                |       |     |
|     | 1075/3        | 208-230 | 3788              | \$259 | 7.5         | 3.3  | 5.0        | 5.3         | 10.3       | 17                |       |     |

LE = Lennox<sup>®†</sup> MI = Miller<sup>®†</sup>

Note 80 Canadian Standard - Connected CCWLE (Reversible)  
Note H22 Flex Mount is Removable

† All marks shown within this document are properties of their respective owners.



## Shaded Pole and Permanent Split Capacitor Unit Heater Fan 5.0", 5.6" and 6.3" Diameter Totally Enclosed Air Over

### APPLICATIONS:

To meet manufacturer's requirements for use on unit heaters.

### FEATURES:

- Reversible Motors Are Easily Reversed With Quick Connects
- Automatic Reset Thermal Overload Protector
- 2 1/2" Diameter Hub Rings When Furnished
- 48 Frame Has 8-32 NF-2A Thread; 56 Frame Has 10-32 NF-2A Thread
- Continuous Duty, Air Over
- 370V Capacitor Is Furnished
- Green Ground Lead
- Leads Are SJO Cord
- Extended Mounting Studs
- **Discount Symbol: DS-3HAC**

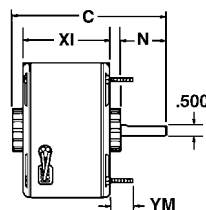
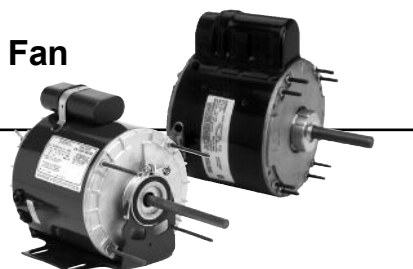


Figure A

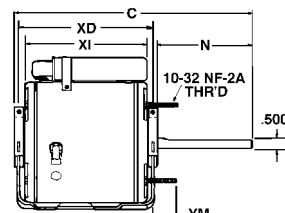


Figure B

### Stud Mount, Single Speed (Figure A)

| HP  | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Diameter<br>(in) | Cap.<br>MFD | Amps | Shaft<br>N | Base<br>XD | Shell<br>XI | Total<br>C | Stud<br>YM | Ship Wt.<br>(lbs) | Notes |
|-----|---------------|---------|-------------------|-------|------------------|-------------|------|------------|------------|-------------|------------|------------|-------------------|-------|
| 1/6 | 1075          | 115     | 9034              | \$205 | 5.6              | 4.0         | 2.6  | 2.5        | 4.9        | 4.3         | 7.9        | 0.8        | 12                |       |
| 1/4 | 1075          | 115     | 9035              | \$223 | 5.6              | 5.0         | 3.6  | 2.5        | 5.8        | 5.1         | 8.7        | 0.8        | 15                |       |
| 1/3 | 1075          | 115     | 9036              | \$227 | 5.6              | 4.0         | 5.1  | 2.5        | 5.8        | 5.1         | 8.7        | 0.8        | 15                |       |

### Resilient Base (Figure B)

| HP  | RPM/<br>Spds. | Voltage | Catalog<br>Number | List  | Diameter<br>(in) | Cap.<br>MFD | Amps | Shaft<br>N | Base<br>XD | Shell<br>XI | Total<br>C | Stud<br>YM | Ship Wt.<br>(lbs) | Notes |
|-----|---------------|---------|-------------------|-------|------------------|-------------|------|------------|------------|-------------|------------|------------|-------------------|-------|
| 1/2 | 1075/2        | 230     | 1810              | \$404 | 6.3              | 10.0        | 2.5  | 4.9        | 7.5        | 6.3         | 12.8       | 2.5        | 26                |       |
| 3/4 | 1075/2        | 230     | 1811              | \$409 | 6.3              | 12.5        | 3.7  | 4.9        | 8.5        | 7.3         | 13.8       | 2.5        | 34                |       |

# Split Phase Belted Fan and Blower NEMA<sup>®†</sup> 48 Frame, Single and Two Speed

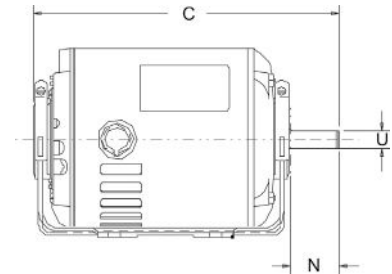


## APPLICATIONS:

To meet manufacturer's requirements for belted fans and blowers.

## FEATURES:

- Resilient Base
- Class B Insulation Unless Otherwise Noted
- With Threaded Conduit Hole
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- **Discount Symbol: DS-3HAC**



## Single Speed, Open Dripproof

| HP  | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA <sup>®†</sup> Frame | Amps        | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes    |
|-----|------|-------------|----------------|-------|----------|--------------------------|-------------|---------|---------|-----------|---------|------|----------------|----------|
| 1/4 | 1725 | 115         | 8000           | \$127 | Ball     | 48                       | 5.3         | 1.5     | 0.500   | Auto      | 8.9     | 1.35 | 13             | 77,79    |
|     | 1725 | 115         | 840CV          | \$128 | Ball     | 48                       | 5.3         | 1.6     | 0.500   | Auto      | 9.4     | 1.35 | 16             | 80,81,82 |
|     | 1725 | 115         | 2889           | \$251 | Ball     | 48                       | 4.4         | 1.5     | 0.500   | Auto      | 9.9     | 1.35 | 21             | 83,A     |
|     | 1725 | 115/208-230 | PD6002         | \$151 | Ball     | 48Z                      | 5.2/2.5-2.6 | 2.25    | 0.500   | Auto      | 10.2    | 1.35 | 17             | 80       |
|     | 1725 | 115         | 8505           | \$192 | Ball     | 48                       | 5.0         | 1.5     | 0.500   | Auto      | 10.7    | 1.00 | 17             |          |
|     | 1725 | 115/208-230 | 3618           | \$136 | Ball     | 48Z                      | 5.2/2.5-2.6 | 1.875   | 0.500   | Auto      | 9.3     | 1.35 | 14             |          |
| 1/3 | 1725 | 115         | 8100           | \$132 | Ball     | 48                       | 6.4         | 1.5     | 0.500   | Auto      | 9.4     | 1.35 | 15             | 77,79    |
|     | 1725 | 115         | 841CV          | \$133 | Ball     | 48                       | 6.4         | 1.6     | 0.500   | Auto      | 9.9     | 1.35 | 18             | 80,81,82 |
|     | 1725 | 115-208/230 | PD6004         | \$178 | Ball     | 48Z                      | 6.6/3.1-3.3 | 2.25    | 0.500   | Auto      | 10.7    | 1.35 | 19             | 80       |
| 1/2 | 1725 | 115         | 8200           | \$158 | Ball     | 48                       | 8.0         | 1.5     | 0.500   | Auto      | 10.0    | 1.25 | 18             | 77,79    |
|     | 1725 | 115         | 1542C          | \$168 | Ball     | 48                       | 8.0         | 1.6     | 0.500   | Auto      | 9.9     | 1.25 | 21             | 80       |
|     | 1725 | 115         | 2887           | \$305 | Ball     | 48                       | 8.0         | 1.5     | 0.500   | Auto      | 9.9     | 1.25 | 21             | 83,A     |
|     | 1725 | 115/208-230 | PD6006         | \$219 | Ball     | 48Z                      | 8.6/4.2-4.3 | 1.9     | 0.500   | Auto      | 10.7    | 1.25 | 20             | 80,81,98 |

## Two Speed, Open Dripproof

| HP        | RPM       | Voltage | Catalog Number | List  | Bearings | NEMA <sup>®†</sup> Frame | Amps | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-----------|-----------|---------|----------------|-------|----------|--------------------------|------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3 / 1/6 | 1725/1140 | 115     | 1786           | \$389 | Ball     | 48                       | 5.8  | 1.5     | 0.500   | Auto      | 10.4    | 1.35 | 22             | A     |
|           | 1725/1140 | 230     | 1789           | \$404 | Ball     | 48                       | 2.9  | 1.6     | 0.500   | Auto      | 10.4    | 1.35 | 22             | A     |

Note 77 With Shaft Adapter For 5/8" Shaft  
 Note 79 Combination Mounting Holes For NEMA<sup>®†</sup> 48 and 56 Frame Dimensions  
 Note 80 Canadian Standard - Connected CCWLE (Reversible)  
 Note 81 Canadian Standard - May Be Used With Single Pole Single Throw Switch; Not Stocked For U.S. Distribution

Note 82 Open, Ventilated  
 Note 83 Enclosed Shell, Ventilation Through End Shields By Internal Fan  
 Note 98 50/60 Hertz  
 Note A Class A Insulation

† All marks shown within this document are properties of their respective owners.



# Split Phase Belted Fan and Blower

## Open Dripproof, NEMA<sup>®†</sup> 56 Frame, Single and Two Speed

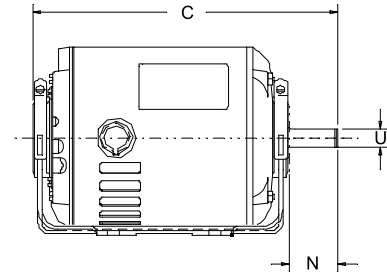


### APPLICATIONS:

To meet manufacturer's requirements for belted fans and blowers.

### FEATURES:

- Resilient Base
- Class B Insulation Unless Otherwise Noted
- With Threaded Conduit Hole
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Discount Symbol: DS-3HAC



### Single Speed, NEMA<sup>®†</sup> 56 Frame

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | NEMA <sup>®†</sup> Frame | Amps     | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-----|------|---------|----------------|-------|----------|--------------------------|----------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3 | 1725 | 115     | 2766           | \$344 | SAB      | 56                       | 5.7      | 1.9     | 0.625   | Auto      | 10.3    | 1.35 | 19             | A     |
|     | 1725 | 115     | 4253           | \$280 | SAB      | 56Z                      | 5.8      | 1.5     | 0.500   | Auto      | 8.9     | 1.35 | 18             | 77,A  |
| 1/2 | 1725 | 115/230 | 4114           | \$368 | SAB      | 56                       | 8.0/4.0  | 1.9     | 0.625   | Auto      | 9.8     | 1.25 | 22             |       |
| 3/4 | 1725 | 115/230 | 4115           | \$387 | SAB      | 56                       | 11.2/5.6 | 1.9     | 0.625   | Auto      | 9.8     | 1.25 | 24             |       |

### Two Speed, NEMA<sup>®†</sup> 56 Frame

| HP  | RPM       | Voltage | Catalog Number | List  | Bearings | NEMA <sup>®†</sup> Frame | Amps     | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-----|-----------|---------|----------------|-------|----------|--------------------------|----------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3 | 1725/1140 | 115     | 5793C          | \$231 | SAB      | 56Z                      | 5.9/3.6  | 1.5     | 0.500   | Auto      | 10.4    | 1.00 | 19             | 80    |
|     | 1725/1140 | 115     | 6470           | \$292 | Ball     | 56Z                      | 6.9/3.8  | 1.6     | 0.500   | Auto      | 8.9     | 1.00 | 20             | 23    |
| 1/2 | 1725/1140 | 115     | 5794C          | \$299 | SAB      | 56Z                      | 8.7/5.1  | 1.5     | 0.500   | Auto      | 10.4    | 1.00 | 25             | 80    |
|     | 1725/1140 | 115     | 4293           | \$412 | SAB      | 56                       | 9.2/6.0  | 1.9     | 0.625   | Auto      | 10.8    | 1.25 | 26             | A     |
|     | 1725/1140 | 230     | 4293H          | \$407 | SAB      | 56                       | 4.6      | 1.9     | 0.625   | Auto      | 10.8    | 1.25 | 26             | A     |
| 3/4 | 1725/1140 | 115     | 5795C          | \$360 | SAB      | 56                       | 11.5/6.4 | 1.9     | 0.625   | Auto      | 11.3    | 1.00 | 23             | 80    |

Note 23 Manual Reset Thermal Overload Protector  
Note 77 With Shaft Adapter For 5/8" Shaft

Note 80 Canadian Standard - Connected CCWLE (Reversible)  
Note A Class A Insulation

† All marks shown within this document are properties of their respective owners.



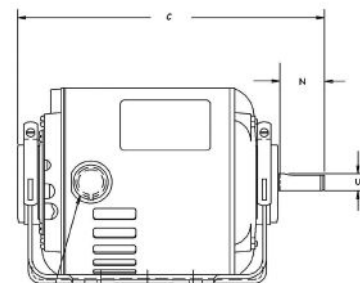
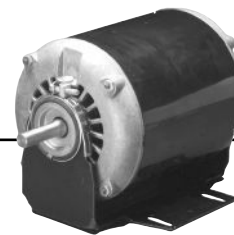
## Split Phase Belted Fan and Blower Open Dripproof

### APPLICATIONS:

To meet manufacturer's requirements for belted fans and blowers.

### FEATURES:

- 48 Frame Diameter Motor On NEMA®† 56 Base
- Includes Shaft Adapter For Conversion To 5/8" Shaft
- 3-1/2" Shaft Height
- Reversible Rotation
- **Discount Symbol: DS-3HAC**



### Single Speed, 48/56 Frame

| HP  | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA®† Frame | Amps        | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-----|------|-------------|----------------|-------|----------|--------------|-------------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3 | 1725 | 115/208-230 | 3622           | \$173 | Ball     | 48Y          | 6.6/3.1-3.3 | 1.5     | 0.500   | Auto      | 9.9     | 1.35 | 18             | 78    |
| 1/2 | 1725 | 115         | 3624           | \$201 | Ball     | 48Y          | 7.4         | 1.5     | 0.500   | Auto      | 9.9     | 1.25 | 20             | 78    |

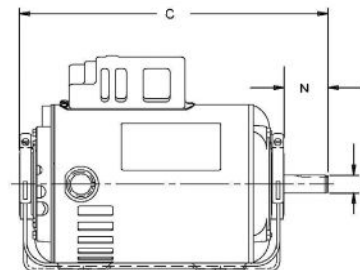
## Capacitor Start Belted Fan and Blower Open Dripproof, Resilient Base

### APPLICATIONS:

To meet manufacturer's requirements for belted fans and blowers.

### FEATURES:

- 40°C Ambient
- Class A Insulation
- Reversible Rotation
- Suitable For All Angle Operation (Within Blower Housing)
- Automatic Reset Thermal Overload Protector
- Threaded Conduit Hole, Except 299
- **Discount Symbol: DS-3HAC**



| HP    | RPM  | Voltage     | Catalog Number | List  | Bearings | NEMA®† Frame | Amps      | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-------|------|-------------|----------------|-------|----------|--------------|-----------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3   | 1725 | 115/230     | 180            | \$251 | SAB      | 48Y          | 6.0/3.0   | 1.5     | 0.500   | Auto      | 9.9     | 1.35 | 20             |       |
| 1/2   | 3450 | 115/208-230 | 298            | \$299 | SAB      | 48           | 8.6/4.3   | 1.5     | 0.500   | Auto      | 9.9     | 1.25 | 16             |       |
|       | 1725 | 115/208-230 | 1790           | \$317 | SAB      | 56           | 9.2/4.6   | 1.9     | 0.625   | Auto      | 9.3     | 1.25 | 22             |       |
| 3/4   | 3450 | 115/208-230 | 430            | \$316 | SAB      | 48           | 9.2/4.6   | 1.5     | 0.500   | Auto      | 10.4    | 1.25 | 22             |       |
|       | 1725 | 115/208-230 | 1893           | \$389 | Ball     | 56           | 11.4/5.7  | 1.9     | 0.625   | Auto      | 10.8    | 1.25 | 27             |       |
| 1     | 3450 | 115/208-230 | 431            | \$344 | SAB      | 48Z          | 11.6/5.8  | 1.9     | 0.625   | Auto      | 11.3    | 1.25 | 22             |       |
|       | 1725 | 115/208-230 | 1769           | \$476 | Ball     | 56           | 14.0/7.0  | 1.9     | 0.625   | Auto      | 11.8    | 1.25 | 30             |       |
|       | 1725 | 115/208-230 | 3187C          | \$417 | SAB      | 56           | 14.0/7.0  | 1.9     | 0.625   | Auto      | 11.8    | 1.25 | 29             | 80    |
| 1 1/2 | 3450 | 115/208-230 | 299            | \$464 | Ball     | 56           | 17.2/9.0  | 1.9     | 0.625   | Auto      | 11.9    | 1.15 | 32             |       |
|       | 1725 | 115/208-230 | 4242           | \$514 | Ball     | 56           | 22.4/11.2 | 1.9     | 0.625   | Auto      | 12.8    | 1.15 | 35             |       |

Note 78 Class B Insulation

Note 80 Canadian Standard - Connected CCWLE (Reversible)

† All marks shown within this document are properties of their respective owners.





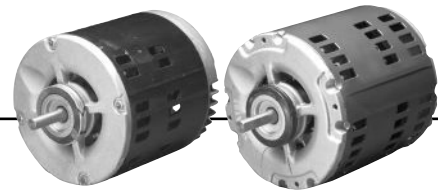
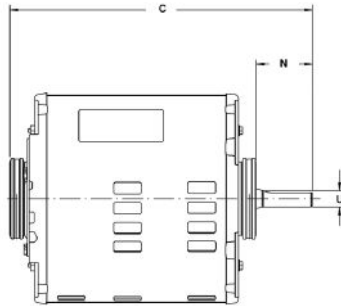
# Split Phase Evaporative Cooler 6.3" Diameter, Open Dripproof

## APPLICATIONS:

To meet manufacturer's requirements for evaporative cooling units.

## FEATURES:

- Ball Bearings
- Class F Insulation
- CW Rotation Shaft End
- Zinc-Phosphate Stator Studs and Nuts
- Corrosion Resistant Rotor Core and Actuator Assembly
- Industry Standard Hub To Hub Dimension
- Automatic Reset Thermal Overload Protector
- **Discount Symbol: DS-3HAC**



## Single Speed

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-----|------|---------|----------------|-------|----------|-------------------------|------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3 | 1725 | 115     | 6764           | \$164 | Ball     | 56Z                     | 5.6  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 14             |       |
| 1/2 | 1725 | 115     | 7095           | \$180 | Ball     | 56Y                     | 8.4  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 17             | 89    |
|     | 1725 | 115     | 6768           | \$155 | Ball     | 56Z                     | 8.2  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 15             |       |
|     | 1725 | 230     | 6766           | \$200 | Ball     | 56Y                     | 4.8  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 19             |       |
| 3/4 | 1725 | 115     | 7096           | \$201 | Ball     | 56Y                     | 11.7 | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 19             | 89    |
|     | 1725 | 115     | 6769           | \$185 | Ball     | 56Z                     | 10.5 | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 18             |       |
|     | 1725 | 230     | 6771           | \$241 | Ball     | 56Y                     | 5.4  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 20             |       |

## Two Speed

| HP  | RPM       | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps     | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes        |
|-----|-----------|---------|----------------|-------|----------|-------------------------|----------|---------|---------|-----------|---------|------|----------------|--------------|
| 1/3 | 1725/1140 | 115     | 7097           | \$192 | Ball     | 56Z                     | 6.6      | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 17             | 89           |
|     | 1725/1140 | 115     | 6767           | \$160 | Ball     | 56Z                     | 5.5/3.9  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 17             |              |
| 1/2 | 1725/1140 | 115     | 6765           | \$167 | Ball     | 56YZ                    | 7.5/4.0  | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 16             |              |
|     | 1725/1140 | 115     | 7098           | \$200 | Ball     | 56Z                     | 8.2      | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 19             | 89           |
|     | 1725/1140 | 230     | 6795           | \$209 | Ball     | 56Z                     | 4.5      | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 19             |              |
| 3/4 | 1725/1140 | 115     | 7099           | \$231 | Ball     | 56Z                     | 10.9     | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 19             | 89           |
|     | 1725/1140 | 230     | 6796           | \$268 | Ball     | 56Y                     | 5.5      | 1.6     | 0.500   | Auto      | 9.4     | 1.00 | 19             |              |
| 1   | 1725/1140 | 115     | 2574           | \$360 | Ball     | 56                      | 12.4/6.1 | 1.9     | 0.625   | Auto      | 11.8    | 1.00 | 35             | 35,60,89,H39 |
|     | 1725/1140 | 230     | 2423           | \$359 | Ball     | 56                      | 7.0/3.7  | 1.9     | 0.625   | Auto      | 11.8    | 1.00 | 34             | 35,60,89,H39 |

NOTE: For Hub Mounting, Order Kit Number 51 and 52. See Pages 190-191.

Note 35 Includes Resilient Base

Note 60 Capacitor Start

Note 89 All Copper Wound

Note H39 Reversible Rotation By Easy Reconnection

† All marks shown within this document are properties of their respective owners.



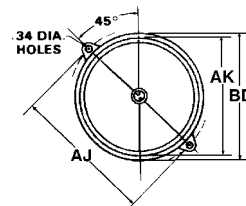
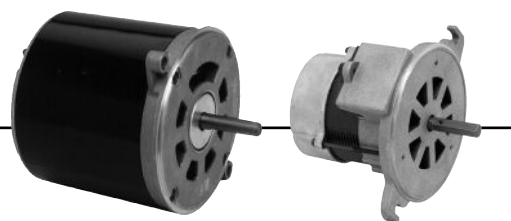
## Split Phase and Capacitor Start Oil Burner Totally Enclosed When Mounted

### APPLICATIONS:

To meet manufacturer's requirements for oil burners.

### FEATURES:

- 40°C Ambient
- 20° Leads, Located At 3 O'Clock Viewed From End Opposite Shaft
- 1.0 Service Factor
- Reversible Rotation, Except As Noted
- Manual Reset Thermal Overload Protector
- Class A Insulation
- 56N Frame Has 2 Holes And Screws For Mounting Outlet Box
- 56N Flange Is Enclosed, 48M And 48N Flange Are Ventilated
- Bearings Have All Angle Thrust System
- Discount Symbol: DS-3HAC



| NEMA <sup>†</sup><br>Frame | Bolt Circle<br>AJ | Flange Dia.<br>AK | Outside Dia.<br>BD |
|----------------------------|-------------------|-------------------|--------------------|
| 48M                        | 6.75"             | 5.500"            | 6.25" max          |
| 48N, 56N                   | 7.25"             | 6.275"            | 7.00" max          |

### OEM Direct Replacements: Beckett<sup>®†</sup>, Carlin<sup>®†</sup>, Ducane<sup>®†</sup>, Wayne Home<sup>®†</sup> (CWLE)

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup><br>Frame | Amps | Shaft<br>N | Shaft<br>U | Protector | Total<br>C | SF | Ship Wt.<br>(lbs) | Notes |
|-----|------|---------|----------------|-------|----------|----------------------------|------|------------|------------|-----------|------------|----|-------------------|-------|
| 1/7 | 3450 | 115     | 3274           | \$72  | Ball     | 48M                        | 1.7  | 2.0        | 0.500      | Auto      | 6.7        | 10 | 84,86,H46         |       |
|     | 3450 | 115     | 5866           | \$112 | Ball     | 48M                        | 2.3  | 2.0        | 0.500      | Manual    | 7.2        | 11 | 84                |       |

### Flange Mounted, Totally Enclosed, Non-Ventilated When Mounted, Without Base

| HP  | RPM  | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup><br>Frame | Amps | Shaft<br>N | Shaft<br>U | Protector | Total<br>C | SF | Ship Wt.<br>(lbs) | Notes |
|-----|------|---------|----------------|-------|----------|----------------------------|------|------------|------------|-----------|------------|----|-------------------|-------|
| 1/8 | 3450 | 115     | 2097           | \$124 | Ball     | 48N                        | 2.4  | 2.0        | 0.500      | Manual    | 7.1        | 11 |                   |       |
|     | 1725 | 115     | 3196           | \$133 | Ball     | 48N                        | 2.4  | 2.0        | 0.500      | Manual    | 7.6        | 14 | 85                |       |
| 1/7 | 3450 | 115     | 3083           | \$118 | Ball     | 48M                        | 2.6  | 2.0        | 0.500      | Manual    | 7.3        | 11 |                   |       |
| 1/6 | 1725 | 115     | 3252           | \$145 | Ball     | 48N                        | 3.1  | 2.0        | 0.500      | Manual    | 7.6        | 15 |                   |       |
| 1/4 | 3450 | 115     | 2302           | \$162 | Ball     | 48N                        | 3.7  | 2.0        | 0.500      | Manual    | 8.3        | 15 |                   |       |
| 1/3 | 3450 | 115     | 2319           | \$190 | Ball     | 48N                        | 4.8  | 2.0        | 0.500      | Manual    | 10.5       | 18 | 78                |       |
|     | 1725 | 115     | 3580           | \$328 | Ball     | 56N                        | 4.8  | 2.3        | 0.500      | Manual    | 10.5       | 25 | 77                |       |

Note 77 5/8" Shaft Adapter And Key Packed With Motor  
 Note 78 Class B Insulation  
 Note 84 Non-Reversible

Note 85 Removable Face Plate  
 Note 86 PSC Motor, Capacitor Included  
 Note H46 3.7" Body

<sup>†</sup> All marks shown within this document are properties of their respective owners.



## Shaded Pole and Permanent Split Capacitor Ventilation Direct Drive Blower 5.0" and 5.6" Diameter, Open Air Over

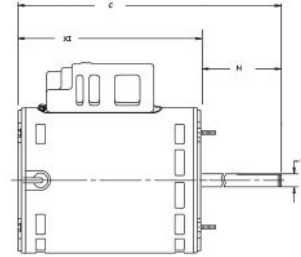


### APPLICATIONS:

To meet manufacturer's requirements for direct drive ventilation units.

### FEATURES:

- Capacitor Included and Mounted on PSC Models
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- Ball Bearings Unless Noted
- 40°C Ambient
- 1.0 Service Factor
- Discount Symbol: DS-3HAC



| HP   | RPM  | Voltage | Catalog Number | List  | NEMA <sup>†</sup> Frame | Amps     | Motor Type | Shaft N | Shaft U | Rotation Lead End | Length XI | Total C | Ship Wt. (lbs) | Notes |
|------|------|---------|----------------|-------|-------------------------|----------|------------|---------|---------|-------------------|-----------|---------|----------------|-------|
| 1/12 | 850  | 115     | 4740           | \$143 | 48YZ                    | 1.7      | PSC        | 3.25    | 0.500   | CW                | 5.81      | 9.06    | 10             |       |
| 1/6  | 1650 | 115     | 4742           | \$122 | 42YZ                    | 2.7      | PSC        | 3.25    | 0.500   | CW                | 5.81      | 9.06    | 10             |       |
|      | 1100 | 115     | 1146           | \$170 | 48YZ                    | 2.2      | PSC        | 3.00    | 0.500   | CCW Rev           | 3.81      | 7.36    | 10             |       |
| 1/3  | 1650 | 115     | 4745           | \$167 | 48YZ                    | 4.0      | PSC        | 3.25    | 0.500   | CW                | 6.06      | 9.31    | 14             |       |
|      | 1100 | 115     | 4746           | \$176 | 48YZ                    | 4.4      | PSC        | 3.25    | 0.625   | CW                | 5.81      | 9.06    | 17             |       |
|      | 1075 | 115     | 1145           | \$185 | 48YZ                    | 4.9      | PSC        | 3.00    | 0.500   | CCW Rev           | 4.81      | 7.81    | 15             |       |
| 1/2  | 1650 | 115/230 | 4748           | \$209 | 48YZ                    | 8.0/4.0  | PSC        | 3.25    | 0.625   | CW                | 6.31      | 9.56    | 18             |       |
|      | 1100 | 115/230 | 4749           | \$218 | 48Y                     | 6.2/3.1  | PSC        | 3.30    | 0.625   | CW                | 6.60      | 9.90    | 20             |       |
| 3/4  | 1100 | 115/230 | 4750           | \$235 | 48YZ                    | 10.0/5.0 | PSC        | 3.25    | 0.625   | CW                | 6.56      | 9.81    | 24             |       |

## Permanent Split Capacitor Ventilation Direct Drive Blower 5.6" and 6.3" Diameter, Totally Enclosed Air Over

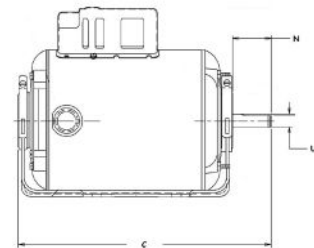


### APPLICATIONS:

To meet manufacturer's requirements for direct drive ventilation units requiring a totally enclosed motor.

### FEATURES:

- Continuous Duty
- 1/2" Diameter x 2-1/2" Diameter Shaft
- Reversible Rotation
- Studs For Mounting Fan Guard
- Terminal Board With Side Conduit Plug
- Automatic Thermal Protection
- Includes Capacitor Mounted With Cover
- Discount Symbol: DS-3HAC



| HP  | RPM/ Spds | Voltage | Catalog Number | List  | NEMA <sup>†</sup> Frame | Amps    | Eff. | SF   | Bearings | Insul. Class | Total C | Ship Wt. (lbs) | Notes | OEM |
|-----|-----------|---------|----------------|-------|-------------------------|---------|------|------|----------|--------------|---------|----------------|-------|-----|
| 1/4 | 1020      | 115     | 4153           | \$224 | 48Y                     | 4.5     | Std  | 1.00 | SAB      | B            | 10.0    | 8.5            |       | MQ  |
|     | 1075/2    | 115     | 4812           | \$227 | 48Z                     | 3.3     | Std  | 1.00 | SAB      | A            | 9.9     | 18             |       |     |
|     | 1725      | 115     | 6326           | \$246 | 56Z                     | 5.0     | Std  | 1.00 | Ball     | A            | 9.8     | 18             | 94    |     |
| 1/3 | 1075      | 115     | 4815           | \$208 | 48Z                     | 4.6     | High | 1.00 | SAB      | A            | 10.5    | 18             |       |     |
|     | 1725      | 115     | 8511           | \$209 | 48Z                     | 5.2     | Std  | 1.00 | Ball     | B            | 10.2    | 15             | 94    |     |
| 1/2 | 1075      | 115     | 4816           | \$230 | 48Z                     | 7       | High | 1.00 | SAB      | B            | 10.9    | 20             |       |     |
|     | 1725      | 115     | 6330           | \$318 | 56                      | 7.4     | Std  | 1.00 | Ball     | A            | 10.3    | 23             | 94    |     |
|     | 1700      | 115/230 | 1850           | \$295 | 48Y                     | 5.0/2.5 | High | 1.00 | Ball     | B            | 10.9    | 25             |       |     |

MQ = McQuay<sup>®†</sup>

<sup>†</sup> All marks shown within this document are properties of their respective owners.



# Split Phase Ventilation Direct Drive Blower 5.6" and 6.3" Diameter, Open Dripproof

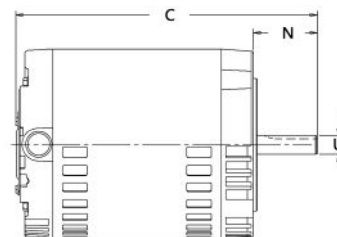


## APPLICATIONS:

To meet manufacturer's requirements for use on direct drive ventilation units with a C-Face mount.

## FEATURES:

- Continuous Duty
- Reversible Rotation
- Class B Insulation
- Threaded Conduit Hole
- Internal Conduit Box Opposite Shaft End
- Keyway On Shaft
- 6.3" Diameter Unless Noted
- Discount Symbol: DS-3HAC



## Single Speed

| HP  | RPM | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|-----|-----|---------|----------------|-------|----------|-------------------------|------|---------|---------|-----------|---------|------|----------------|-------|
| 1/3 | 850 | 115     | 1208           | \$767 | Ball     | 56CZ                    | 9.0  | 2.3     | 0.625   | Auto      | 12.7    | 1.35 | 40             |       |

## Two Speed

| HP       | RPM       | Voltage | Catalog Number | List  | Bearings | NEMA <sup>†</sup> Frame | Amps    | Shaft N | Shaft U | Protector | Total C | SF   | Ship Wt. (lbs) | Notes |
|----------|-----------|---------|----------------|-------|----------|-------------------------|---------|---------|---------|-----------|---------|------|----------------|-------|
| 1/4/1/12 | 1725/1140 | 115     | 1236           | \$408 | Ball     | 56CZ                    | 4.6/2.4 | 2.3     | 0.625   | Auto      | 10.9    | 1.35 | 17             | H8    |
| 1/3/1/9  | 1725/1140 | 115     | 1847           | \$443 | Ball     | 56CZ                    | 5.8/4.1 | 2.4     | 0.625   | Auto      | 10.9    | 1.00 | 20             |       |
| 1/2/1/6  | 1725/1140 | 115     | 1237           | \$634 | Ball     | 56CZ                    | 8.2/4.1 | 2.3     | 0.625   | Auto      | 11.0    | 1.25 | 22             | H8    |

Note H8 5.6" Diameter

<sup>†</sup> All marks shown within this document are properties of their respective owners.



## Ventilation Circulator Motor Yoke Mount Fan Motors



### APPLICATIONS:

To meet manufacturer's requirements for air circulators where motor is mounted directly to fan column.

### FEATURES:

- Continuous Duty
- PSC Models Include Capacitor Mounted With Cover
- Clockwise Drive End Rotation
- Automatic Reset Thermal Overload Protection
- Studs For Mounting Fan Guard
- 1.0 Service Factor Except Where Noted
- Terminal Board With Side Conduit Plug Unless Noted
- **Discount Symbol: DS-3HAC**

### Yoke Mount, Welded Tab Fan Motors

| HP  | RPM/Spds | Voltage | Frame | Catalog Number | List  | Discount Symbol | Amps | Motor Type | Bearings | Enclosure | Ship Wt. (lbs) | Notes |
|-----|----------|---------|-------|----------------|-------|-----------------|------|------------|----------|-----------|----------------|-------|
| 1/4 | 1100/2   | 115     | 48Y   | 1931*          | \$384 | DS-3HAC         | 3.0  | PSC        | SAB      | TEAO      | 13             | H27   |
|     | 1075/2   | 115     | 48Y   | 1933           | \$405 | DS-3HAC         | 5.7  | PSC        | Ball     | OAO       | 19             | H27   |
|     | 1075/2   | 115     | 48YZ  | 1917*          | \$415 | DS-3HAC         | 4.2  | PSC        | Ball     | TEAO      | 15             |       |
| 1/3 | 1075/2   | 115     | 48YZ  | 1935           | \$218 | DS-3HAC         | 5.3  | PSC        | SAB      | TEAO      | 20             |       |
| 1/2 | 825/1    | 115     | 48YZ  | 1940           | \$344 | DS-3HAC         | 6.4  | PSC        | Ball     | TEAO      | 25             | H27   |
|     | 1075/2   | 115     | 48Y   | 1838           | \$456 | DS-3HAC         | 5.8  | PSC        | Ball     | TEAO      | 23             | H27   |
|     | 1075/2   | 115     | 48Y   | 1924           | \$489 | DS-3HAC         | 7.2  | PSC        | Ball     | TEAO      | 23             |       |
|     | 1075/2   | 115     | 48YZ  | 1937           | \$463 | DS-3HAC         | NULL | PSC        | Ball     | TEAO      | 18             | H27   |

## Painted Washdown Yoke Mount Fan Motors



### FEATURES:

- Class F Insulation
- USDA<sup>†</sup> Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- Automatic Reset Thermal Overload Protector
- Gasketed Conduit Box With NPT Lead Holes
- F1 Assembly Position
- Internal Corrosion Protection On Rotor, Stator, Winding and Frame
- Stationary Grease Seal On Shaft End
- 303 Stainless Steel Shaft
- **Discount Symbol: DS-3WD**

### Washdown Fan Motors

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | Amps    | Motor Type | Bearings | Enclosure | Ship Wt. (lbs) | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|---------|------------|----------|-----------|----------------|-------|
| 1/4 | 1800 | 115/230 | 56YZ  | WD14AA2PZ7     | \$426 | DS-3WD          | 3.5/1.7 | PSC        | Ball     | TEAO      | 19             | 24    |
| 1/3 | 1800 | 115/230 | 56YZ  | WD13AA2PZ7     | \$448 | DS-3WD          | 4.9/2.5 | PSC        | Ball     | TEAO      | 27             | 24    |
| 1/2 | 1800 | 115/230 | 56YZ  | WD12AA2PZ7     | \$481 | DS-3WD          | 5.9/2.9 | PSC        | Ball     | TEAO      | 30             | 24    |

Note 24 Automatic Reset Thermal Protector Overload

<sup>†</sup> All marks shown within this document are properties of their respective owners.



## Accessories

Provide maximum flexibility in applying standard replacement motors to various applications.

Discount Symbol: DS-3HAC

| Kit Number | Description                                                                                                                                                                                                                                                        | Quantity Per Kit                               | List    | Item                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------|---------------------------------------------------------------------------------------|
| 1          | Shaft Conversion Set. Each set includes Qty. 1 shaft adapter and Qty. 1 key (converts 1/2" shaft to 5/8" shaft)                                                                                                                                                    | 10 sets                                        | \$11.00 |    |
| 9          | Steel Banded Hub Ring Set -- 2-1/4" diameter (2 per set)                                                                                                                                                                                                           | 1 set                                          | \$5.00  |    |
| 10         | Steel Banded Hub Ring Set -- 2-1/2" diameter (2 per set)                                                                                                                                                                                                           | 1 set                                          | \$5.00  |                                                                                       |
| 15         | Rubber Hub Ring -- 2-1/2" diameter (2 per set)                                                                                                                                                                                                                     | 1 set                                          | \$5.00  |    |
| 52         | Base Clamp Mounting Hardware -- 2-1/2" diameter. Each set includes all hardware necessary to mount base to one motor                                                                                                                                               | 6 sets                                         | \$20.00 |    |
| 13         | Belly Band Mount adjustable ear mount for 5.0" and 5.6" diameter motor (expanding ring type)                                                                                                                                                                       | 1 mount                                        | \$16.00 |   |
| 25         | Belly Band Mount adjustable ear mount for 5.6" diameter motor (double wire type)                                                                                                                                                                                   | 1 mount                                        | \$20.00 |  |
| 55         | One kit equals Qty. 1 carton of Qty. 144 studs & Qty. 288 nuts. For resale convenience we have packaged Qty. 12 studs and Qty. 24 nuts in a plastic bag, Qty. 12 bags to each carton. Price is for complete carton. 8-1/2" long 8x32 thread stator studs and nuts. | 12 bags, with 12 studs and 24 nuts in each bag | \$25.00 |  |
| 16         | Direct Drive Blower Mounting Ring Set - double wire type. Each set includes motor support ring & Qty. 3 rubber mounting bushings with sleeves and mounting screws. For 5.0" diameter motor -- 9-9/32" blower mount diameter.                                       | 1 set                                          | \$21.00 |  |
| 17         | For 5.6" diameter motor through 10" blower mount diameter.                                                                                                                                                                                                         | 1 set                                          | \$21.00 |                                                                                       |
| 21         | Shaft grounding ring for 5/8" shaft, 56 frame Varitough® motors plus new bearing cap and rain shield to install after the grounding ring is put in place.                                                                                                          | 1 set                                          | \$94.00 |  |

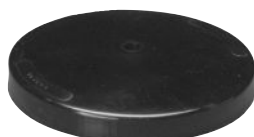
† All marks shown within this document are properties of their respective owners.



## Accessories

Provide maximum flexibility in applying standard replacement motors to various applications.

Discount Symbol: DS-3HAC

| Kit Number | Description                                                                                                                                                                                                                                                                                                                       | Quantity Per Kit | List    | Item                                                                                |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|-------------------------------------------------------------------------------------|
| 43         | Direct Drive Belly Band Blower Mounting Ring Set – E-Band - Torsion Type. Each set includes motor support ring with welded ears. Mounting ears have dual mounting holes to fit either blower mount diameter. For 5.0" diameter motor -- 9" or 10" blower mount diameter.                                                          | 1 mount          | \$12.00 |  |
| 44         | For 5.6" diameter motor through 9" or 10" blower mount diameter.                                                                                                                                                                                                                                                                  | 1 mount          | \$14.00 |                                                                                     |
| 27         | Hub Length Adapter Set - Each set includes Qty. 2 2-1/4" resilient mounting rings and Qty. 4 metal outer rings to convert to 2-1/2" rings (Fits 5.0" and 5-5/8" diameter motors). Also includes 10-32 studs for adaptation to 21 Frame and 8-32 studs for 5.0" and 5.6" Frame. screws for extended studs for 5.0" and 5.6" Frame. | 1 set            | \$18.00 |  |
| 26         | Drip Shield for Condenser Fan Motors - 6-3/8" diameter with 1/2" diameter shaft hole for NEMA <sup>®</sup> 42, 48 or 56Z frame motors.                                                                                                                                                                                            | 1 shield         | \$10.00 |  |
| 28         | Drip Shield for Condenser Fan Motors - 6-3/8" diameter with 5/8" diameter shaft hole for NEMA <sup>®</sup> 42, 48 or 56Z frame motors.                                                                                                                                                                                            | 1 shield         | \$10.00 |                                                                                     |

## Resilient Base Cradle Kits for PSC & Shaded Pole Motors

Refer to XD dimension on catalog pages to determine base length required. Each kit includes one cradle base, 2 base clamp assemblies and 2 hub rings, unless otherwise noted.

| Kit Number | Shaft Height | Hub to Hub (XD Length) | Hub Ring Diameter | List |
|------------|--------------|------------------------|-------------------|------|
| 46         | 2-5/8"       | 4-1/4"                 | 2-1/4"            | \$14 |
| 35         | 2-5/8"       | 4-1/4"                 | 2-1/2"            | \$14 |
| 3          | 3"           | 4-1/8"                 | 2-1/2"            | \$14 |
| 30         | 3"           | 4-3/8"                 | 2-1/2"            | \$14 |
| 7          | 3"           | 4-5/8"                 | 2-1/2"            | \$14 |
| 4          | 3"           | 4-7/8"                 | 2-1/2"            | \$14 |
| 19*        | 3"           | 5-1/8"                 | 2-1/2"            | \$10 |
| 32         | 3"           | 5-3/8"                 | 2-1/2"            | \$14 |
| 38         | 3"           | 6-1/2"                 | 2-1/2"            | \$14 |
| 5          | 3-1/2"       | 4-1/8"                 | 2-1/2"            | \$14 |
| 31         | 3-1/2"       | 4-3/8"                 | 2-1/2"            | \$14 |
| 6          | 3-1/2"       | 4-7/8"                 | 2-1/2"            | \$14 |
| 20         | 3-1/2"       | 5-1/8"                 | 2-1/2"            | \$10 |
| 34         | 3-1/2"       | 5-3/8"                 | 2-1/2"            | \$14 |
| 37         | 3-1/2"       | 6-1/2"                 | 2-1/2"            | \$14 |
| 12         | 3-1/2"       | 7"                     | 2-1/2"            | \$11 |
| 51         | 3-1/2"       | 7-1/2"                 | 2-1/2"            | \$12 |

\* No Hub Rings



† All marks shown within this document are properties of their respective owners.





**WE BUILD MORE THAN MOTORS.**

# **WE BUILD COMPATIBILITY.**



## **The Complete Variable Speed Solution**

- System compatibility
- Delivers high wire-to-water efficiency
- Pump Panel and Vertical HOLLOSHAFT® work together seamlessly
- Single point of contact for motor and drive
- Motor Match Warranty





# Washdown

For use in food, beverage or chemical processing plants in which the motor is routinely exposed to high-pressure washdowns, high humidity or caustic chemicals.

**Horsepower:**

- Stainless Steel: 1/2 HP to 10 HP
- Paint Free: 1/2 HP to 10 HP
- Painted: 1/4 HP to 15 HP

**Phase:** Single and Three Phase

**RPM:** 1200, 1800 or 3600

**Voltage:**

- Single Phase: 115/208-230 volts
- Three Phase: 208/230 and 208-230/460 volts

**Efficiency:** Premium Efficient & Energy Efficient options

**Mounting Options:** Rigid Base, C-Face Footed, C-Face Footless or Yoke Mount

**Enclosure:**

- Totally Enclosed Fan Cooled
- Totally Enclosed Non-Ventilated

**Construction:**

- All: Internal corrosion protection
- Stainless Steel: 300 Series stainless steel on all external components
- Paint Free: Stainless steel frame, aluminum end shields
- Painted: Steel frame with aluminum or cast iron end shields with white epoxy paint

**Shaft:** 303 Stainless Steel

**Seals:** VBX<sup>®†</sup> bearing isolators by Inpro/Seal<sup>®†</sup> on all stainless steel and paint free motors. Lip seals and rotating shaft seals on painted motors.

**Drains:** Stainless steel T-type drains on paint-free, stainless steel, and 140 & below frame size painted motors

**Nameplate:** Laser etched on stainless frames. Stainless steel on painted frames



## Setting the Standard

Each U.S. MOTORS<sup>®</sup> brand washdown motor includes VBX<sup>®†</sup> bearing isolators by Inpro/Seal<sup>®†</sup>, which protect against water and contaminants. Stainless steel "T"-drains allow condensation to drain from any mounted position without having to remove or rotate any drain plugs. Nitrile conduit box gasket with the lead exit hole Loctite<sup>®†</sup> sealed, allows the conduit box to be rotated 180 degrees without breaking the Loctite<sup>®†</sup> seal, and assists in preventing water from entering the motor through the conduit box.

U.S. MOTORS<sup>®</sup> brand washdown motors provide durability and flexibility to maximize uptime that will reduce operating costs. Lab and site tested, our paint free and stainless steel washdown motors set the standard on reliability.

<sup>†</sup> All marks shown within this document are properties of their respective owners.

## Painted Washdown Three Phase, Totally Enclosed



### APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

### FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- BISSC®† Certified, Smooth Design For Easy Cleaning
- USDA®† Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power, Except WD3E2D14 (Design C)
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)

### Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 1/3   | 1800 | 208-230/460 | 56    | WD13S2A        | \$440   | DS-3WD          | 1.35 | 10.8              | 26             | -              | 1.9-1.8/0.9    | 28        |
| 1/2   | 1800 | 208-230/460 | 56    | WD12S2A        | \$572   | DS-3WD          | 1.15 | 10.8              | 26             | 80.0           | 1.9-1.8/0.9    | 28        |
| 3/4   | 1800 | 208-230/460 | 56    | WD34S2A        | \$600   | DS-3WD          | 1.15 | 11.8              | 27             | 82.5           | 2.6-2.4/1.2    | 28        |
|       | 1200 | 208-230/460 | 143T  | WD34S3A14      | \$744   | DS-3WD          | 1.15 | 13.8              | 32             | 78.0           | 3.1-3.2/1.6    |           |
| 1     | 1800 | 208-230/460 | 143T  | WD1P2A14       | \$959   | DS-3WD          | 1.15 | 14.3              | 35             | 85.5           | 3.3-3.3/1.6    |           |
|       | 1800 | 208-230/460 | 56    | WD1E2A         | \$641   | DS-3WD          | 1.15 | 12.3              | 26             | 82.5           | 3.4-3.3/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 56    | WD1P2A         | \$641   | DS-3WD          | 1.15 | 12.3              | 26             | 82.5           | 3.4-3.3/1.7    | 28,NNP,LA |
|       | 1200 | 208-230/460 | 145T  | WD1P3A         | \$945   | DS-3WD          | 1.15 | 15.8              | 48             | 82.5           | 3.8-3.8/1.9    |           |
| 1 1/2 | 1800 | 208-230/460 | 145T  | WD32P2A14      | \$1069  | DS-3WD          | 1.00 | 14.8              | 36             | 86.5           | 4.8-4.6/2.3    |           |
|       | 1800 | 208-230/460 | 145T  | WD32P2AH       | \$1069  | DS-3WD          | 1.00 | 14.8              | 36             | 86.5           | 4.8-4.6/2.3    |           |
| 2     | 1800 | 208-230/460 | 145T  | WD2P2A14       | \$1,300 | DS-3WD          | 1.00 | 14.8              | 26             | 86.5           | 6.2-6.0/3.0    |           |
|       | 1800 | 208-230/460 | 145T  | WD2P2A143      | \$1,300 | DS-3WD          | 1.15 | 14.8              | 26             | 86.5           | 6.2-6.0/3.0    |           |
| 3     | 1800 | 208-230/460 | 182T  | WD3P2D         | \$1,500 | DS-3WD          | 1.15 | 15.8              | 55             | 89.5           | 8.2-7.6/3.8    | 03        |
| 5     | 1800 | 208-230/460 | 184T  | WD5P2D         | \$1,564 | DS-3WD          | 1.15 | 15.8              | 76             | 89.5           | 13.5-12.5/6.2  | 03        |
| 7 1/2 | 1800 | 208-230/460 | 213T  | WD7P2D         | \$2,213 | DS-3WD          | 1.15 | 18.3              | 117            | 91.7           | 20-18.2/9.1    | 03        |
| 10    | 1800 | 208-230/460 | 215T  | WD10P2D        | \$2,394 | DS-3WD          | 1.15 | 19.3              | 125            | 91.7           | 26.5-23.9/11.9 | 03        |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 28 TENV Enclosure

Note 96 Feather Picker Features

Note NNP Non-NEMA®† Premium Rating

† All marks shown within this document are properties of their respective owners.



# Painted Washdown Three Phase, Totally Enclosed



## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- BISSC® Certified, Smooth Design For Easy Cleaning
- USDA® Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

## C-Face Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes    |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|----------|
| 1/2   | 3600 | 208-230/460 | 56C   | WD12S1AC       | \$521   | DS-3WD          | 1.15 | 11.8              | 32             | 75.5           | 1.8-1.6/0.8    | 28,LA    |
|       | 1800 | 208-230/460 | 56C   | WD12S2AC       | \$600   | DS-3WD          | 1.15 | 11.3              | 26             | 82.5           | 1.9-1.8 / 0.9  | 28,LA    |
|       | 1200 | 208-230/460 | 56C   | WD12S3AC       | \$768   | DS-3WD          | 1.15 | 11.3              | 32             | 82.5           | 2.2-2.2/1.1    | 28,LA    |
| 3/4   | 3600 | 208-230/460 | 56C   | WD34S1AC       | \$588   | DS-3WD          | 1.15 | 11.8              | 32             | 75.5           | 2.4-2.2 / 1.1  | 28,LA    |
|       | 1800 | 208-230/460 | 56C   | WD34S2AC       | \$695   | DS-3WD          | 1.15 | 12.3              | 26             | 82.1           | 2.6-2.4/1.2    | 28,LA    |
|       | 1200 | 208-230/460 | 56C   | WD34S3AC       | \$938   | DS-3WD          | 1.00 | 12.3              | 22             | 82.0           | 3.2/1.6        | 28,LA    |
| 1     | 3600 | 208-230/460 | 56C   | WD1E1AC        | \$695   | DS-3WD          | 1.15 | 12.3              | 32             | 77.0           | 3.4-3.2 / 1.6  | 28,NN,LA |
|       | 1800 | 208-230/460 | 143TC | WD1P2A14C      | \$926   | DS-3WD          | 1.15 | 12.8              | 26             | 85.5           | 3.4-3.3/1.8    |          |
|       | 1800 | 208-230/460 | 143TC | WD1S2A14C      | \$781   | DS-3WD          | 1.15 | 12.8              | 26             | 77.4           | 3.4-3.3/1.7    | 28,NN,LA |
|       | 1800 | 208-230/460 | 56C   | WD1P2AC        | \$870   | DS-3WD          | 1.15 | 12.8              | 26             | 85.5           | 3.4-3.3/1.8    |          |
|       | 1200 | 208-230/460 | 56C   | WD1S3AC        | \$928   | DS-3WD          | 1.15 | 12.8              | 32             | 82.5           | 3.8-3.8/1.8    | 28,NN,LA |
| 1 1/2 | 3600 | 208-230/460 | 56C   | WD32S1AC       | \$761   | DS-3WD          | 1.15 | 12.8              | 32             | 84.0           | 4.3-4.1/2.1    | 28,NN,LA |
|       | 1800 | 208-230/460 | 145TC | WD32E2A14C     | \$815   | DS-3WD          | 1.00 | 14.3              | 26             | 86.5           | 4.6-4.4/2.2    | 28,NN,LA |
|       | 1800 | 208-230/460 | 56HC  | WD32S2AHC      | \$753   | DS-3WD          | 1.00 | 14.3              | 26             | 86.5           | 4.6-4.4/2.2    | 28,NN,LA |
|       | 1200 | 208-230/460 | 56HC  | WD32S3AC       | \$964   | DS-3WD          | 1.00 | 14.3              | 22             | 84.0           | 6.0-6.0/3.0    | 28,NN,LA |
| 2     | 3600 | 208-230/460 | 56HC  | WD2P1AHC       | \$970   | DS-3WD          | 1.15 | 13.9              | 42             | 85.5           | 6.0-5.6/2.8    |          |
|       | 3600 | 208-230/440 | 56HC  | WD2S1AHC       | \$843   | DS-3WD          | 1.15 | 13.3              | 32             | 80.0           | 6.0-5.4 / 2.7  | ,NN,LA   |
|       | 3600 | 208-230/460 | 145TC | WD2P1A14C      | \$780   | DS-3WD          | 1.15 | 13.9              | 35             | 85.5           | 5.4-4.9/2.5    |          |
|       | 1800 | 208-230/460 | 56HC  | WD2P2AHC       | \$991   | DS-3WD          | 1.00 | 14.9              | 46             | 86.5           | 6.2-6.0/3.0    |          |
|       | 1800 | 208-230/460 | 145TC | WD2P2A14C      | \$1,206 | DS-3WD          | 1.00 | 14.9              | 48             | 86.5           | 6.2-6.0/3.0    |          |
|       | 1200 | 208-230/460 | 184TC | WD2P3DC        | \$1,950 | DS-3WD          | 1.15 | 16.8              | 80             | 88.5           | 6.4-6.2/3.1    |          |
| 3     | 3600 | 208-230/460 | 145TC | WD3P1A14C      | \$1,229 | DS-3WD          | 1.15 | 14.4              | 76             | 86.5           | 8.1-7.2/3.6    | 14       |
|       | 3600 | 208-230/460 | 182TC | WD3P1DC        | \$1,477 | DS-3WD          | 1.15 | 18.8              | 73             | 88.5           | 8.1-7.4/3.7    |          |
|       | 1800 | 208-230/460 | 182TC | WD3P2DC        | \$1,477 | DS-3WD          | 1.15 | 16.8              | 58             | 89.5           | 8.2-7.6/3.8    | 03       |
|       | 1200 | 208-230/460 | 213TC | WD3P3DC        | \$2,250 | DS-3WD          | 1.15 | 19.4              | 117            | 90.2           | 9-8.3/4.2      |          |
| 5     | 3600 | 208-230/460 | 184TC | WD5P1DC        | \$1,674 | DS-3WD          | 1.15 | 18.8              | 85             | 89.5           | 13.3-11.8/5.9  |          |
|       | 1800 | 208-230/460 | 184TC | WD5P2DC        | \$1,581 | DS-3WD          | 1.15 | 16.8              | 87             | 89.5           | 13.5-12.5/6.2  | 03       |
|       | 1200 | 208-230/460 | 215TC | WD5P3DC        | \$2,346 | DS-3WD          | 1.15 | 20.4              | 128            | 89.5           | 15-14.1/7      |          |
| 7 1/2 | 3600 | 208-230/460 | 184TC | WD7P1AFC       | \$2,041 | DS-3WD          | 1.15 | 18.8              | 103            | 90.2           | 19.4-17.3/8.7  | 14       |
|       | 3600 | 208-230/460 | 213TC | WD7P1DC        | \$2,041 | DS-3WD          | 1.15 | 21.4              | 137            | 91.0           | 19.7-17.4/8.7  |          |
|       | 1800 | 208-230/460 | 213TC | WD7P2DC        | \$1,961 | DS-3WD          | 1.15 | 19.4              | 140            | 91.7           | 20-18.2/9.1    | 03       |
| 10    | 3600 | 208-230/460 | 215TC | WD10P1DC       | \$2,283 | DS-3WD          | 1.15 | 21.4              | 145            | 91.0           | 26.1-23.1/11.6 |          |
|       | 1800 | 208-230/460 | 215TC | WD10P2DC       | \$2,038 | DS-3WD          | 1.15 | 20.4              | 128            | 91.7           | 26.5-23.9/11.9 | 03       |
| 15    | 3600 | 208-230/460 | 215TC | WD15P1DFC      | \$3,302 | DS-3WD          | 1.15 | 21.4              | 154            | 93.0           | 38-35/17.4     | 14       |

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA® Design A

Note 28 TENV Enclosure

Note LA Limited Availability  
Note NNP Non-NEMA® Premium Rating

† All marks shown within this document are properties of their respective owners.



## Painted Washdown Three Phase, Totally Enclosed



The Slicker™

### APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

### FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- BISSC<sup>®†</sup> Certified, Smooth Design For Easy Cleaning
- USDA<sup>®†</sup> Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA<sup>®†</sup> Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

### C-Face Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 1/3   | 1800 | 208-230/460 | 56C   | WD13S2ACR      | \$540   | DS-3WD          | 1.35 | 11.3              | 26             | 80.0           | 1.9-1.8/0.9    | 28        |
| 1/2   | 1800 | 208-230/460 | 56C   | WD12S2ACR      | \$596   | DS-3WD          | 1.15 | 11.3              | 26             | -              | 1.9-1.8/0.9    | 28        |
| 3/4   | 1800 | 208-230/460 | 56C   | WD34S2ACR      | \$689   | DS-3WD          | 1.15 | 12.3              | 26             | 82.5           | 2.6-2.4/1.2    | 28        |
| 1     | 3600 | 208-230/460 | 56C   | WD1S1ACR       | \$590   | DS-3WD          | 1.15 | 12.3              | 32             | 77.0           | 3.4-3.2 / 1.6  | 28        |
|       | 1800 | 208-230/460 | 143TC | WD1E2A14CR     | \$722   | DS-3WD          | 1.15 | 12.8              | 26             | 82.5           | 3.4-3.3/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 56C   | WD1E2ACR       | \$722   | DS-3WD          | 1.15 | 12.8              | 26             | 82.5           | 3.4-3.3/1.7    | 28,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 56C   | WD32E1ACR      | \$770   | DS-3WD          | 1.15 | 12.8              | 32             | 84.0           | 4.3-4.1/2.1    | 28        |
|       | 1800 | 208-230/460 | 56C   | WD32S2ACR      | \$751   | DS-3WD          | 1.00 | 14.4              | 26             | 86.5           | 4.6-4.4/2.2    | 28        |
|       | 1800 | 230/460     | 145TC | WD32S2A14CR    | \$751   | DS-3WD          | 1.00 | 14.4              | 26             | 86.5           | 4.4/2.2        | 28        |
| 2     | 3600 | 208-230/460 | 56C   | WD2S1ACR       | \$964   | DS-3WD          | 1.15 | 13.4              | 32             | 80.0           | 6.0-5.4/2.7    | NNP,LA    |
|       | 1800 | 208-230/460 | 145TC | WD2E2A14CR     | \$857   | DS-3WD          | 1.00 | 14.4              | 26             | 84.0           | 6-5.9/3        | NNP,LA    |
|       | 1800 | 208-230/460 | 145TC | WD2P2A14CR     | \$1,287 | DS-3WD          | 1.00 | 14.9              | 26             | 86.5           | 6.2-6.0/3.0    |           |
|       | 1800 | 208-230/460 | 56C   | WD2P2ACR       | \$900   | DS-3WD          | 1.00 | 14.9              | 46             | 86.5           | 6.2-6.0/3.0    |           |
|       | 1800 | 208-230/460 | 56C   | WD2S2ACR       | \$857   | DS-3WD          | 1.00 | 14.4              | 26             | -              | 6.3-6.1/3.1    | NNP       |
| 3     | 3600 | 208-230/460 | 56C   | WD3S1ACR       | \$1,030 | DS-3WD          | 1.15 | 14.4              | 32             | 85.5           | 8.8-7.3/3.6    | NNP,LA    |
|       | 1800 | 208-230/460 | 145TC | WD3E2A14CR     | \$1,055 | DS-3WD          | 1.00 | 14.9              | 38             | 87.5           | 9.5-9.2/4.6    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 182TC | WD3E2DCR       | \$1,110 | DS-3WD          | 1.15 | 16.8              | 78             | 87.5           | 8.5-7.9/3.9    | NNP,LA    |
|       | 1800 | 208-230/460 | 182TC | WD3P2DCR       | \$1,477 | DS-3WD          | 1.15 | 16.8              | 58             | 89.5           | 8.2-7.6/3.8    | 03        |
| 5     | 1800 | 208-230/460 | 184TC | WD5E2DCR       | \$1,256 | DS-3WD          | 1.15 | 16.8              | 94             | 87.5           | 14-12.6/6.3    | NNP,LA    |
|       | 1800 | 208-230/460 | 184TC | WD5P2DCR       | \$1,581 | DS-3WD          | 1.15 | 16.8              | 87             | 89.5           | 13.5-12.5/6.2  | 03        |
| 7 1/2 | 1800 | 208-230/460 | 213TC | WD7P2DCR       | \$1,961 | DS-3WD          | 1.15 | 19.4              | 117            | 91.7           | 20-18.2/9.1    | 03        |
| 10    | 1800 | 208-230/460 | 215TC | WD10P2DCR      | \$2,038 | DS-3WD          | 1.15 | 20.4              | 128            | 91.7           | 26.5-23.9/11.9 | 03        |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate  
 Note 28 TENV Enclosure  
 Note LA Limited Availability  
 Note NNP Non-NEMA<sup>®†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# Paint Free Washdown Three Phase, Totally Enclosed, C-Face



## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- INVERTER GRADE<sup>®†</sup> Insulation System (Meets NEMA<sup>®†</sup> MG-1 Part 31)
- BISSC<sup>®†</sup> Certified
- VBX<sup>®†</sup> Bearing Isolators By Inpro/Seal On Drive End (Both Ends On 180-210 Frame)
- 303 Stainless Steel Shaft
- Multiple Stainless Steel T-type drains
- Double Contact Sealed Ball Bearings
- Laser-Etched Oversized Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- RTV-Sealed Lead Exit
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Stainless Steel Frame
- Easy to Read Connection Leads
- Rust Inhibitor on Rotor
- 40°C Ambient, NEMA<sup>®†</sup> Design B
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives

## Footed

| HP    | RPM  | Voltage               | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes     |
|-------|------|-----------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-----------|
| 1/2   | 1800 | 208-230/460           | 56HC  | WDP12S2AHC     | \$774   | DS-3WD          | 1.15 | 12.2              | 36             | 2.0-1.9/0.9    | 28        |
| 3/4   | 1800 | 208-230/460           | 56HC  | WDP34S2AHC     | \$895   | DS-3WD          | 1.15 | 12.2              | 31             | 2.8-2.7/1.3    | 28        |
| 1     | 1800 | 208-230/460           | 145TC | WDP1S2AC       | \$926   | DS-3WD          | 1.15 | 13.8              | 44             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460           | 56HC  | WDP1S2AHC      | \$926   | DS-3WD          | 1.15 | 13.7              | 44             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56HC  | WDP1P2AHC      | \$1,225 | DS-3WD          | 1.15 | 14.3              | 31             | 3.5-3.4/1.7    |           |
| 1 1/2 | 1800 | 208-230/460           | 145TC | WDP32S2AC      | \$967   | DS-3WD          | 1.00 | 13.8              | 52             | 4.9-4.8/2.4    | 28,NNP,LA |
| 2     | 1800 | 208-230/460           | 145TC | WDP2P2AC       | \$1,421 | DS-3WD          | 1.00 | 14.9              | 51             | 6.2-6.0/3.0    |           |
|       | 1800 | 208-230/460           | 56HC  | WDP2S2AHC      | \$1,194 | DS-3WD          | 1.15 | 14.0              | 52             | 7.0-7.0/3.5    | NNP,LA    |
| 3     | 1800 | 208-230/460           | 182TC | WDP3P2AC       | \$1,932 | DS-3WD          | 1.15 | 18.5              | 55             | 8.3-7.6/3.8    |           |
| 5     | 1800 | 208-230/460           | 184TC | WDP5P2AC       | \$2,132 | DS-3WD          | 1.15 | 18.5              | 76             | 13.6-12.3/6.1  |           |
| 7 1/2 | 1800 | 208-230/460           | 213TC | WDP7P2AC       | \$2,568 | DS-3WD          | 1.15 | 21.2              | 117            | 19.9-18.1/9    |           |
| 10    | 1800 | 208-230/460           | 215TC | WDP10P2AC      | \$2,737 | DS-3WD          | 1.15 | 21.2              | 125            | 26.5-23.8/11.9 |           |

## Footless

| HP    | RPM  | Voltage               | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes     |
|-------|------|-----------------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-----------|
| 1/2   | 1800 | 208-230/460           | 56C   | WDP12S2ACR     | \$766   | DS-3WD          | 1.15 | 12.2              | 31             | 2.0-1.9/0.9    | 28        |
|       | 1200 | 208-230/460           | 56C   | WDP12S3DCR     | \$784   | DS-3WD          | 1.15 | 12.2              | 32             | 2.2-2.2/1.1    | 28        |
| 3/4   | 1800 | 208-230/460           | 56C   | WDP34S2ACR     | \$887   | DS-3WD          | 1.15 | 12.2              | 51             | 2.8-2.7/1.3    | 28        |
| 1     | 1800 | 208-230/460           | 145TC | WDP1S2ACR      | \$918   | DS-3WD          | 1.15 | 13.8              | 43             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP1S2AFCR     | \$918   | DS-3WD          | 1.15 | 13.7              | 38             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP1P2AFCR     | \$1,215 | DS-3WD          | 1.15 | 14.3              | 30             | 3.5-3.4/1.7    | 28,NNP,LA |
|       | 1200 | 208-230/460           | 56C   | WDP1S3DCR      | \$964   | DS-3WD          | 1.15 | 13.8              | 32             | 4.7-4.8/2.4    | 28,NNP,LA |
| 1 1/2 | 1800 | 208-230/460           | 145TC | WDP32S2ACR     | \$960   | DS-3WD          | 1.00 | 13.8              | 51             | 4.9-4.8/2.4    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP32S2AFCR    | \$960   | DS-3WD          | 1.00 | 11.9              | 10             | 4.9-4.8/2.4    | 28,NNP,LA |
|       | 1800 | 208-230/460 & 190/380 | 56C   | WDP32P2DFCR    | \$1,215 | DS-3WD          | 1.00 | 14.3              | 50             | 4.9-4.8/2.4    | 28,NNP,LA |
| 2     | 1800 | 208-230/460           | 145TC | WDP2E2ACR      | \$1,096 | DS-3WD          | 1.15 | 14.9              | 51             | 7.0-7.0/ 3.5   | NNP,LA    |
|       | 1800 | 208-230/460           | 145TC | WDP2P2ACR      | \$1,490 | DS-3WD          | 1.00 | 14.5              | 51             | 6.2-6.0/3.0    | 28,NNP,LA |
|       | 1800 | 208-230/460           | 145TC | WDP2S2ACR      | \$1,096 | DS-3WD          | 1.15 | 14.1              | 51             | 7.0-7.0/3.5    | 28,NNP,LA |
|       | 1800 | 208-230/460           | 56C   | WDP2S2AFCR     | \$1,096 | DS-3WD          | 1.15 | 14.0              | 51             | 7.0-7.0/3.5    | 28,NNP,LA |

Note 28 TENV Enclosure  
 Note LA Limited Availability  
 Note NNP Non-NEMA<sup>®†</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# All Stainless Steel Washdown Three Phase Totally Enclosed, C-Face



The Silver  
Bullet

## APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

## FEATURES:

- All Stainless Steel External Construction
- 40°C Ambient, NEMA<sup>®</sup> Design B
- INVERTER GRADE<sup>®</sup> Insulation System (Meets NEMA<sup>®</sup> MG-1 Part 31)
- 303 Stainless Steel Shaft
- Multiple Stainless Steel T-type Drains
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Rust Inhibitor on Rotor
- BISSC<sup>®</sup> Certified
- VBX<sup>®</sup> Bearing Isolators by Inpro/Seal On Drive End
- Double Sealed Ball Bearings
- Laser-Etched Oversized Nameplate
- RTV-Sealed Lead Exit Holes
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Easy to Read Connection Leads

## Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (Inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes     |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 1/2   | 3600 | 208-230/460 | 56HC  | WDS12S1AHC     | \$1,341 | DS-3WD          | 1.15 | 11.9              | 34             | 75.5           | 1.6-1.5/0.8    | 28        |
|       | 1800 | 208-230/460 | 56HC  | WDS12S2AHC     | \$1,435 | DS-3WD          | 1.15 | 11.9              | 34             | 78.5           | 1.8-1.9/1      | 28        |
| 3/4   | 3600 | 208-230/460 | 56HC  | WDS34S1AHC     | \$1,345 | DS-3WD          | 1.15 | 11.9              | 39             | 77.0           | 2.2-2.1/1      | 28        |
|       | 1800 | 208-230/460 | 56HC  | WDS34S2AHC     | \$1,484 | DS-3WD          | 1.15 | 11.9              | 38             | 82.5           | 2.4-2.4/1.2    | 28        |
| 1     | 3600 | 208-230/460 | 56HC  | WDS1S1AHC      | \$1,478 | DS-3WD          | 1.15 | 11.9              | 42             | 77.0           | 2.8-2.6/1.3    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 143TC | WDS1E2AC       | \$1,525 | DS-3WD          | 1.15 | 11.9              | 39             | 85.5           | 3.1-2.9/1.4    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 56HC  | WDS1S2AHC      | \$1,525 | DS-3WD          | 1.15 | 11.9              | 39             | 85.5           | 3.1-2.9/1.4    | 28,NNP,LA |
| 1 1/2 | 3600 | 208-230/460 | 145TC | WDS32P1AC      | \$1,588 | DS-3WD          | 1.15 | 13.2              | 42             | 84.0           | 4.2-3.8/1.9    |           |
|       | 3600 | 208-230/460 | 56HC  | WDS32S1AFHC    | \$1,584 | DS-3WD          | 1.15 | 11.9              | 57             | 85.5           | 4.4-4.1/2.1    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 56HC  | WDS32S2AFHC    | \$1,534 | DS-3WD          | 1.15 | 11.9              | 57             | 85.5           | 4.4-4.1/2.1    | 28,NNP,LA |
|       | 1800 | 208-230/460 | 145TC | WDS32P2AC      | \$2,032 | DS-3WD          | 1.15 | 13.2              | 46             | 86.5           | 4.3-4.1/2.1    |           |
| 2     | 3600 | 208-230/460 | 145TC | WDS2P1AC       | \$1,910 | DS-3WD          | 1.15 | 13.2              | 50             | 85.5           | 5.3-4.9/2.4    |           |
|       | 3600 | 208-230/460 | 56HC  | WDS2P1AFHC     | \$1,727 | DS-3WD          | 1.15 | 13.2              | 50             | 85.5           | 5.3-4.9/2.4    |           |
|       | 1800 | 208-230/460 | 56HC  | WDS2P2AFHC     | \$1,813 | DS-3WD          | 1.15 | 13.2              | 61             | 86.5           | 5.7-5.4/2.7    |           |
|       | 1800 | 208-230/460 | 145TC | WDS2P2AC       | \$2,145 | DS-3WD          | 1.15 | 13.2              | 46             | 86.5           | 5.7-5.4/2.7    |           |
| 3     | 3600 | 208-230/460 | 145TC | WDS3P1A14C     | \$2,294 | DS-3WD          | 1.15 | 13.2              | 55             | 86.5           | 8.1-7.2/3.6    |           |
|       | 3600 | 208-230/460 | 182TC | WDS3P1AC       | \$2,473 | DS-3WD          | 1.15 | 13.2              | 55             | 86.5           | 8.1-7.2/3.6    |           |
|       | 1800 | 208-230/460 | 182TC | WDS3P2AC       | \$2,270 | DS-3WD          | 1.15 | 18.5              | 58             | 89.5           | 8.3-7.6/3.8    |           |
| 5     | 3600 | 208-230/460 | 184TC | WDS5P1AC       | \$2,607 | DS-3WD          | 1.15 | 18.5              | 85             | 89.5           | 13.3-11.8/5.9  |           |
|       | 1800 | 208-230/460 | 184TC | WDS5P2AC       | \$2,505 | DS-3WD          | 1.15 | 18.5              | 75             | 89.5           | 13.6-12.3/6.1  |           |
| 7 1/2 | 3600 | 208-230/460 | 213TC | WDS7P1AC       | \$3,054 | DS-3WD          | 1.15 | 21.2              | 137            | 89.5           | 19.7-17.4/8.7  |           |
|       | 1800 | 208-230/460 | 213TC | WDS7P2AC       | \$3,116 | DS-3WD          | 1.15 | 21.2              | 117            | 91.7           | 19.9-18.1/9    |           |
| 10    | 3600 | 208-230/460 | 215TC | WDS10P1AC      | \$3,433 | DS-3WD          | 1.15 | 21.2              | 145            | 90.2           | 26.1-23.1/11.6 |           |
|       | 1800 | 208-230/460 | 215TC | WDS10P2AC      | \$3,426 | DS-3WD          | 1.15 | 21.2              | 128            | 91.7           | 26.5-23.8/11.9 |           |



Note 28 TENV Enclosure  
 Note LA Limited Availability  
 Note NNP Non-NEMA<sup>®</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



# All Stainless Steel Washdown Three Phase Totally Enclosed, C-Face

(continued)



The Silver  
Bullet

## Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes       |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------------|
| 1/2   | 3600 | 208-230/460 | 56C   | WDS12S1ACR     | \$1,314 | DS-3WD          | 1.15 | 11.9              | 34             | 75.5           | 1.6-1.5/0.8    | 28          |
|       | 1800 | 208-230/460 | 56C   | WDS12S2ACR     | \$1,403 | DS-3WD          | 1.15 | 11.9              | 37             | 78.5           | 1.8-1.9/1      | 28          |
| 3/4   | 3600 | 208-230/460 | 56C   | WDS34S1ACR     | \$1,318 | DS-3WD          | 1.15 | 11.9              | 39             | 77.0           | 2.2-2.1/1      | 28          |
|       | 1800 | 208-230/460 | 56C   | WDS34S2ACR     | \$1,444 | DS-3WD          | 1.15 | 11.9              | 41             | 82.5           | 2.4-2.4/1.2    | 28          |
| 1     | 3600 | 208-230/460 | 56C   | WDS1S1ACR      | \$1,449 | DS-3WD          | 1.15 | 11.9              | 42             | 77.0           | 2.8-2.6/1.3    | 28, NNP, LA |
|       | 1800 | 208-230/460 | 143TC | WDS1S2ACR      | \$1,492 | DS-3WD          | 1.15 | 11.9              | 42             | 85.5           | 3.1-2.9/1.4    | 28, NNP, LA |
|       | 1800 | 208-230/460 | 56C   | WDS1S2AFCR     | \$1,492 | DS-3WD          | 1.15 | 11.9              | 42             | 85.5           | 3.1-2.9/1.4    | 28, NNP, LA |
| 1 1/2 | 3600 | 208-230/460 | 56C   | WDS32S1AFCR    | \$1,560 | DS-3WD          | 1.15 | 11.9              | 53             | 84.0           | 4-3.6/1.8      | 28, NNP, LA |
|       | 3600 | 208-230/460 | 145TC | WDS32P1ACR     | \$1,564 | DS-3WD          | 1.15 | 13.2              | 42             | 84.0           | 4.2-3.8/1.9    |             |
|       | 1800 | 208-230/460 | 145TC | WDS32P2ACR     | \$1,989 | DS-3WD          | 1.15 | 13.2              | 47             | 86.5           | 4.3-4.1/2.1    |             |
|       | 1800 | 208-230/460 | 56C   | WDS32S2AFCR    | \$1,525 | DS-3WD          | 1.15 | 13.2              | 49             | 86.5           | 4.3-4.1/2.1    |             |
| 2     | 3600 | 208-230/460 | 145TC | WDS2P1ACR      | \$1,891 | DS-3WD          | 1.15 | 13.2              | 50             | 85.5           | 5.3-4.9/2.4    |             |
|       | 1800 | 208-230/460 | 145TC | WDS2P2ACR      | \$2,102 | DS-3WD          | 1.15 | 13.2              | 47             | 86.5           | 5.7-5.4/2.7    |             |
|       | 1800 | 208-230/460 | 56C   | WDS2S2AFCR     | \$1,854 | DS-3WD          | 1.15 | 13.2              | 52             | 86.5           | 5.7-5.4/2.7    |             |
| 3     | 3600 | 208-230/460 | 145TC | WDS3P1ACR      | \$2,448 | DS-3WD          | 1.15 | 13.2              | 55             | 86.5           | 8.1-7.2/3.6    |             |
|       | 1800 | 208-230/460 | 182TC | WDS3P2ACR      | \$2,247 | DS-3WD          | 1.15 | 18.5              | 58             | 89.5           | 8.3-7.6/3.8    |             |
| 5     | 3600 | 208-230/460 | 184TC | WDS5P1ACR      | \$2,581 | DS-3WD          | 1.15 | 18.5              | 82             | 89.5           | 13.3-11.8/5.9  |             |
|       | 1800 | 208-230/460 | 184TC | WDS5P2ACR      | \$2,480 | DS-3WD          | 1.15 | 18.5              | 75             | 89.5           | 13.6-12.3/6.1  |             |

Note 28 TENV Enclosure  
Note LA Limited Availability  
Note NNP Non-NEMA<sup>®</sup> Premium Rating

† All marks shown within this document are properties of their respective owners.



## Painted Washdown Single Phase, Totally Enclosed, C-Face



The Slicker™

### APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

### FEATURES:

- Class F Insulation
- BISSC®† Certified, Smooth Design For Easy Cleaning
- USDA®† Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- F1 Assembly Position
- Double Contact Sealed Ball Bearings
- Reversible Rotation
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Stationary Grease Seal On Both Ends
- 303 Stainless Steel Shaft
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-type Drains
- Automatic Reset Thermal Overload Protector on Yoke Mount Fan Motors

### Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|---------|
| 1/2   | 3600 | 115/208-230 | 56C   | WD12C1JC       | \$523   | DS-3WD          | 1.15 | 11.8              | 32             | 7.3/3.9-3.7    | 28      |
|       | 1800 | 115/208-230 | 56C   | WD12C2JC       | \$537   | DS-3WD          | 1.15 | 12.8              | 26             | 9.5/4.6-4.8    | 25      |
| 3/4   | 3600 | 115/208-230 | 56C   | WD34C1JC       | \$538   | DS-3WD          | 1.15 | 12.3              | 30             | 9.7/5.3-4.9    | 28      |
|       | 1800 | 115/208-230 | 56C   | WD34C2JC       | \$611   | DS-3WD          | 1.15 | 13.3              | 32             | 12.8/6.4-6.5   |         |
| 1     | 3600 | 115/208-230 | 56C   | WD1C1JC        | \$583   | DS-3WD          | 1.15 | 13.3              | 32             | 13.6/6.9-6.8   |         |
|       | 1800 | 115/208-230 | 56HC  | WD1C2JHC       | \$702   | DS-3WD          | 1.15 | 13.8              | 28             | 15.4/7.8-7.6   |         |
| 1 1/2 | 3600 | 115/208-230 | 56HC  | WD32C1JHC      | \$768   | DS-3WD          | 1.15 | 13.8              | 28             | 14.6/8.1-7.4   | CSCR,25 |
|       | 1800 | 115/208-230 | 56HC  | WD32C2JHC      | \$896   | DS-3WD          | 1.15 | 15.3              | 32             | 14.4/8.0-7.2   | CSCR    |
| 2     | 1800 | 115/230     | 56HC  | WD2C2PHC       | \$1,052 | DS-3WD          | 1.15 | 15.3              | 48             | 19.6/9.8       | CSCR,25 |

### Footless

| HP  | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes   |
|-----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|---------|
| 1/2 | 3600 | 115/208-230 | 56C   | WD12C1JCR      | \$576   | DS-3WD          | 1.15 | 11.8              | 32             | 7.3/3.9-3.7    | 28      |
|     | 1800 | 115/208-230 | 56C   | WD12C2JCR      | \$663   | DS-3WD          | 1.15 | 12.8              | 32             | 8.8/4.3-4.4    | 28      |
| 3/4 | 1800 | 115/208-230 | 56C   | WD34C2JCR      | \$748   | DS-3WD          | 1.15 | 13.8              | 41             | 7.8/4.3-3.9    | CSCR,28 |
| 1   | 3600 | 115/208-230 | 56C   | WD1C1JCR       | \$672   | DS-3WD          | 1.15 | 13.8              | 34             | 9.9/5.8-5.3    | CSCR,28 |
|     | 1800 | 115/208-230 | 56C   | WD1C2JCR       | \$848   | DS-3WD          | 1.00 | 14.3              | 24             | 10.3/5.5-5.2   | CSCR    |
| 2   | 1800 | 115/230     | 56C   | WD2C2JCR       | \$1,059 | DS-3WD          | 1.15 | 15.3              | 48             | 19.6/9.8       | CSCR    |

### Permanent Split Capacitor, Yoke Mount, Non-Oscillating Totally Enclosed Air Over (TEAO) Fan Motors

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/4 | 1800 | 115/230 | 56YZ  | WD14AA2PZ7     | \$426 | DS-3WD          | 1.00 | 10.9              | 19             | 3.5/1.7        | 24    |
| 1/3 | 1800 | 115/230 | 56YZ  | WD13AA2PZ7     | \$448 | DS-3WD          | 1.00 | 10.9              | 16             | 4.9/2.5        | 24    |
| 1/2 | 1800 | 115/230 | 56YZ  | WD12AA2PZ7     | \$481 | DS-3WD          | 1.00 | 11.9              | 32             | 5.9/2.9        | 24    |

Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected

Note 28 TENV Enclosure

Note CSCR Capacitor Start /Capacitor Run

† All marks shown within this document are properties of their respective owners.





# Agriculture

For use in farm & agriculture duty applications.



**Horsepower:** 1/4 – 30 HP

**Phase:** Single and Three Phase

**RPM:** 3600 or 1800 RPM

**Voltage:**

- Single Phase, 115, 115/230, or 230 Volts, 60 Hz
- Three Phase, 230/460 Volts, 60 Hz

**Enclosure:** Totally Enclosed, Air Over (TEAO) & Totally Enclosed, Fan Cooled (TEFC) Options

**Construction:** Rolled steel or aluminum frame

**Conduit Box:** Varies based on motor size and end use design

**Bearings:** Ball bearings

**Grease:** Mobil 28<sup>®</sup>† Low Temperature Grease Standard in High Torque and Ultra High Torque Agri Duty motors

**Temp Rise:** Ambient 40°C

**Thermal Overload:**

- High Torque and Ultra High Torque available with manual reset overload protectors
- Motors available with automatic reset overload protectors or thermostats



When it comes to motors for farm, dairy, agricultural, horticultural and aquacultural duty applications, there's only one brand you need to know: U.S. MOTORS<sup>®</sup> brand.

Our motors are built for performance, efficiency and longevity — three benefits that you require from your motors. U.S. MOTORS<sup>®</sup> brand offers one of the broadest selections of ag duty motors in the industry...motors for virtually any agricultural application including:

**Bin Loading and Unloading Systems:**  
Center drive auger  
Top drive auger  
Horizontal power head  
Bucket elevators

**Grain Aeration and Conditioning:**  
Vane axial fans  
Centrifugal fans  
Inline centrifugal fans  
Heaters

**Material Handling:**  
Chain conveyors  
Bucket elevators  
Drag conveyors  
Pit conveyors

**Ventilation:**  
Poultry house vent fans  
Pit vent fans  
Livestock house fans  
Greenhouses  
Direct and belt drive fans  
Curtain motors  
Hatcher and setter motors  
Crop dryers

**Feed Delivery Systems:**  
Poultry  
Swine  
Cattle

**Additional Applications:**  
Agitators  
Compressors  
Hay hoists  
Barn cleaners  
Silo unloaders  
Irrigation pumps  
Transfer pumps  
Pressure washers  
Center pivot gear motors

† All marks shown within this document are properties of their respective owners.

# Special Application Agriculture Single Phase, Totally Enclosed Fan Cooled (TEFC), Ultra High Torque, Capacitor Start



## APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists. High torque motors are used on barn cleaners, manure pumps and silo unloaders.

## FEATURES:

- Class F Insulation
- 40°C Ambient, Continuous Duty
- Typical Starting Torque 300% Of Full Load
- F1 Assembly
- Extruded Aluminum Frame (180-210 Frame)
- Manual Reset Thermal Overload Protector
- Plastic Fan & Fan Cover
- Double Shielded Bearings w/Low-Temp Grease (Regreasable Shaft End)
- Removable Condensation Drains For Vertical Mounting
- Fully Gasketed Steel Conduit Box
- Die Cast Aluminum Brackets With Steel Bearing Inserts

## Footed

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 1 1/2 | 1800 | 115/230 | 143T  | FDU32CM2P14    | \$521   | DS-3SP          | 1.15 | 14.8              | 47             | 19.2/10.1      | 23    |
| 2     | 1800 | 115/230 | 182TZ | FDU2CM2P18Z    | \$823   | DS-3SP          | 1.15 | 16.8              | 66             | 25.6/12.8      | 23    |
| 3     | 1800 | 230     | 184T  | FDU3CM2K18     | \$1,101 | DS-3SP          | 1.15 | 18.8              | 80             | 17.0           | 23    |
| 5     | 1800 | 230     | 184T  | FDU5CM2K18     | \$1,378 | DS-3SP          | 1.15 | 18.8              | 80             | 24.0           | 23    |
|       | 1800 | 230     | 215TZ | FDU5CM2K21Z    | \$1,524 | DS-3SP          | 1.15 | 20.1              | 142            | 29.0           | 23    |
| 7 1/2 | 1800 | 230     | 215TZ | FDU7CM2K21Z    | \$2,044 | DS-3SP          | 1.15 | 21.4              | 150            | 30.0           | 23    |
| 10    | 1800 | 230     | 215T  | FDU10CM2K21    | \$2,511 | DS-3SP          | 1.15 | 21.4              | 153            | 41.0           | 23    |
|       | 1800 | 230     | 215T  | FDU10CM2K21    | \$2,511 | DS-3SP          | 1.15 | 21.3              | 153            | 41.0           | 23    |

## C-Face

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 3     | 1800 | 208/230 | 184TC | FDU3CM2K18C    | \$1,262 | DS-3SP          | 1.15 | 18.7              | 78             | 16.4/17.0      | 23    |
| 5     | 1800 | 208/230 | 184TC | FDU5CM2K18C    | \$1,587 | DS-3SP          | 1.15 | 18.7              | 100            | 22.2/24.0      | 23    |
| 7 1/2 | 1800 | 230     | 215TC | FDU7CM2K21C    | \$2,349 | DS-3SP          | 1.15 | 21.3              | 150            | 30.0           | 23    |
| 10    | 1800 | 230     | 215TC | FDU10CM2K21C   | \$2,887 | DS-3SP          | 1.15 | 21.3              | 215            | 41.2           | 23    |

Note 23 Manual Reset Thermal Protector Overload

† All marks shown within this document are properties of their respective owners.



## Special Application Air Compressor Single Phase, Open Dripproof (ODP)



### APPLICATIONS:

For belt drive air compressor duty high breakdown torque.

### FEATURES:

- Rigid Welded Base
- Continuous Duty
- Manual Reset Thermal Overload Protector
- ODP Enclosure
- Class B Insulation
- 40°C Ambient
- Ball Bearings
- Rotation - CCW Facing Shaft End, Non-Reversible

| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1     | 3600 | 115/230 | 56    | 3763           | \$361 | DS-3F           | 1.00 | 11.4              | 24             | 15.0/7.5       |       |
| 2     | 3600 | 115/230 | 56    | 3768           | \$655 | DS-3F           | 1.00 | 11.9              | 28             | 15.0/7.5       |       |
| 3     | 3600 | 208-230 | 56    | 3769           | \$711 | DS-3F           | 1.00 | 12.4              | 32             | 15.3/15.0      |       |
| 5     | 3600 | 208-230 | 56HZ  | D5CM1K14       | \$866 | DS-3F           | 1.00 | 14.4              | 43             | 22.5-22.0      |       |
|       | 1800 | 230     | 184T  | D5C2K          | \$821 | DS-3SP          | 1.15 | 16.3              | 75             | 23.5           | 25, R |
| 7 1/2 | 3600 | 230     | 184T  | D7C1K          | \$969 | DS-3SP          | 1.15 | 16.3              | 80             | 30.0           | 25    |

## General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)



### APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

### FEATURES:

- WORLD MOTOR® Features Except Where Noted
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- "CE" Mark On Nameplate
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 230/460     | 143T  | U1P2D          | \$423   | DS-3RST         | 1.25 | 12.8              | 30             | 85.5           | 3.1-3/1.5      | 03    |
| 1-1/2 | 1800 | 230/460     | 145T  | U32P2D         | \$469   | DS-3RST         | 1.25 | 12.8              | 40             | 86.5           | 4.5-4.3/2.1    | 03    |
| 2     | 1800 | 230/460     | 145T  | U2P2D          | \$514   | DS-3RST         | 1.25 | 12.8              | 45             | 86.5           | 5.9-5.7/2.8    | 03    |
| 3     | 1800 | 230/460     | 182T  | U3P2D          | \$678   | DS-3AL          | 1.25 | 16.5              | 60             | 89.5           | 8.4-7.8/3.9    |       |
| 5     | 1800 | 230/460     | 184T  | U5P2D          | \$788   | DS-3AL          | 1.25 | 17.3              | 70             | 90.2           | 13.6-12.3/6.2  |       |
| 7-1/2 | 1800 | 230/460     | 213T  | U7P2D          | \$1,078 | DS-3AL          | 1.25 | 18.6              | 125            | 91.7           | 20-18.2/9.1    |       |
| 10    | 1800 | 230/460     | 215T  | U10P2D         | \$1,302 | DS-3AL          | 1.25 | 20.1              | 133            | 91.7           | 26.5-23.9/12   |       |
| 15    | 1800 | 230/460     | 254T  | U15P2D         | \$1,798 | DS-3AL          | 1.25 | 24.4              | 240            | 92.4           | 40-37/18.4     |       |
| 20    | 1800 | 230/460     | 256T  | U20P2D         | \$2,216 | DS-3AL          | 1.25 | 26.1              | 250            | 93.0           | 53-47/23.7     |       |
| 25    | 1800 | 208-230/460 | 284T  | U25P2D         | \$2,659 | DS-3AL          | 1.15 | 28.7              | 290            | 93.6           | 65-59/29.3     |       |
| 30    | 1800 | 208-230/460 | 286T  | U30P2D         | \$3,101 | DS-3AL          | 1.15 | 28.7              | 325            | 93.6           | 78-70/35       |       |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate  
 Note 25 Non-protected  
 Note R Reversible Rotation

† All marks shown within this document are properties of their respective owners.



# Special Application Agriculture Totally Enclosed Fan Cooled (TEFC) Agri Duty High Torque Single Phase, Capacitor Start



## APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists. High torque motors are used on barn cleaners, manure pumps and silo unloaders.

## FEATURES:

- Class F Insulation (140-210 Frame)
- 40°C Ambient, Continuous Duty
- Reversible Rotation
- F1 Assembly
- Steel Frames & Steel Welded Based (140-210 Frame)
- Manual Reset Thermal Overload Protector
- Steel Fan Cover & Conduit Box
- Non-Regreasable Double Shielded Bearings
- Shaft Slinger (140-210 Frame)
- Capacitor Start-Capacitor Run (3-10 HP)
- Low Temperature Grease

## Footed

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes    |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------|
| 1/3   | 1800 | 115/230 | 56    | FD13CM2P       | \$278   | DS-3FMP         | 1.15 | 10.9              | 23             | 6.6/3.3        | 23       |
| 1/2   | 1800 | 115/230 | 56    | FD12CM2P       | \$324   | DS-3FMP         | 1.15 | 11.4              | 23             | 9.0/4.5        | 23       |
| 3/4   | 1800 | 115/230 | 56    | FD34CM2P       | \$384   | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7       | 23       |
| 1     | 1800 | 115/230 | 143T  | FD1CM2P14      | \$684   | DS-3F           | 1.15 | 12.8              | 32             | 15.0/7.5       | 23       |
|       | 1800 | 115/230 | 56H   | FD1CM2PZ       | \$439   | DS-3FMP         | 1.15 | 12.9              | 23             | 14.0/7.0       | 23       |
| 1 1/2 | 1800 | 115/230 | 145T  | FD32CM2P14     | \$473   | DS-3SP          | 1.15 | 14.3              | 43             | 16.2/8.1       | 23, CSCR |
|       | 1800 | 115/230 | 56H   | FD32CM2PH      | \$468   | DS-3FMP         | 1.15 | 13.3              | 32             | 16.2/8.1       | 23, CSCR |
| 2     | 1800 | 115/230 | 182T  | FD2CM2P18      | \$779   | DS-3SP          | 1.00 | 15.2              | 60             | 23.6/11.8      | 23       |
|       | 1800 | 115/230 | 56HZ  | FD2CM2PHZ      | \$639   | DS-3FMP         | 1.00 | 14.3              | 40             | 20.0/10.0      | 23       |
| 3     | 1800 | 230     | 184T  | FD3CM2K18      | \$1,045 | DS-3SP          | 1.00 | 17.2              | 74             | 14.5           | 23       |
| 5     | 1800 | 230     | 184T  | FD5CM2K18      | \$1,307 | DS-3SP          | 1.00 | 18.2              | 125            | 22.0           | 23       |
|       | 1800 | 230     | 213T  | FD5CM2K21      | \$1,442 | DS-3SP          | 1.00 | 19.6              | 180            | 23.0           | 23       |
| 7 1/2 | 1800 | 230     | 215T  | FD7CM2K21      | \$1,937 | DS-3SP          | 1.00 | 22.1              | 147            | 30.0           | 23       |
| 10    | 1800 | 230     | 215T  | FD10CM2K21     | \$2,380 | DS-3SP          | 1.00 | 22.1              | 180            | 38.0           | 23       |

## C-Face Footed

| HP  | RPM  | Voltage | Frame | Catalog Number | List | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/3 | 1725 | 115/230 | 56C   | FD13CM2PC      | 370  | DS-3FMP         | 1.15 | 10.88             | 21             | 6.6/3.3        | 23    |
| 1/2 | 1725 | 115/230 | 56C   | FD12CM2PC      | 375  | DS-3FMP         | 1.15 | 11.38             | 26             | 9.0/4.5        | 23    |
| 3/4 | 1725 | 115/230 | 56C   | FD34CM2PC      | 447  | DS-3FMP         | 1.15 | 11.92             | 30             | 11.4/5.7       | 23    |
| 1   | 1725 | 115/230 | 56HC  | FD1CM2PHC      | 503  | DS-3FMP         | 1.15 | 12.88             | 35             | 14.0/7.0       | 23    |
| 1.5 | 1725 | 115/230 | 56HC  | FD32CPM2PHC    | 599  | DS-3FMP         | 1.15 | 13.88             | 32             | 14.4/7.2       | 23    |
| 2   | 1725 | 115/230 | 145TC | FD2CM2PHC      | 704  | DS-3FMP         | 1.15 | 14.44             | 32             | 18.9/9.4       | 23    |

## C-Face Footless

| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/3   | 1800 | 115/230 | 56C   | FD13CM2PCR     | \$360 | DS-3FMP         | 1.15 | 10.9              | 21             | 6.6/3.3        | 23    |
| 1/2   | 1800 | 115/230 | 56C   | FD12CM2PCR     | \$360 | DS-3FMP         | 1.15 | 11.4              | 32             | 9.0/4.5        | 23    |
| 3/4   | 1800 | 115/230 | 56C   | FD34CM2PCR     | \$437 | DS-3FMP         | 1.15 | 11.9              | 32             | 11.4/5.7       | 23    |
| 1     | 1800 | 115/230 | 56C   | FD1CM2PCR      | \$493 | DS-3FMP         | 1.15 | 12.9              | 44             | 14.0/7.0       | 23    |
| 1 1/2 | 1800 | 115/230 | 56C   | FD32CM2PCR     | \$589 | DS-3FMP         | 1.15 | 13.9              | 44             | 16.2/8.1       | 23    |

Note 23 Manual Reset Thermal Protector Overload  
Note CSCR Capacitor Start/Capacitor Run

† All marks shown within this document are properties of their respective owners.



# Special Application Agriculture Aeration Fan & Crop Dryer



## APPLICATIONS:

For air over applications or fans mounted directly on the motor shaft.  
Specifically designed for use on vane axial crop dryers and aeration fans.

## FEATURES:

### Aeration Fan

- Totally Enclosed Air Over
- Class B Insulation On 56 Frame
- Class F Insulation On 140 Frame
- Keyed Shaft Drilled On Center 1" Deep & Tapped 1/4" UNC
- 56Z Frame Motors Have 5/8" Dia. X 2-1/4" Long Shaft
- F1 Assembly Position

### Crop Dryer

- Open Dripproof Air-Over
- Thermostat Protected (Overheating Protection) Requires Leads to be Connected to Control Circuit of Motor Controller
- Non-Standard 1-1/8" Diameter X 3-1/4" Long Keyed Shaft Is Drilled On Center 1" Deep & Tapped 1/4-20 UNC
- Rodent Screens, Extra Long Leads, Class F Insulation
- F1 Assembly Position

## Aeration Fan - Cap Start

| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes   |
|-------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|----------------|---------|
| 1/2   | 3600 | 115/230 | 48    | FD12CA1P4      | \$334 | DS-3FMP         | 1.00 | 9.0               | 19             | -              | 7.4/3.7        | 24      |
|       | 3600 | 115/230 | 56Z   | FD12CA1PZ      | \$305 | DS-3F           | 1.00 | 9.8               | 20             | -              | 7.4/3.7        | 24      |
| 3/4   | 3600 | 115/230 | 48    | FD34CA1P4      | \$351 | DS-3FMP         | 1.00 | 8.5               | 19             | -              | 10.6/5.3       | 24      |
|       | 3600 | 115/230 | 56Z   | FD34CA1PZ      | \$356 | DS-3SP          | 1.00 | 10.3              | 19             | -              | 11.0/5.5       | 24      |
| 1     | 3600 | 115/230 | 56Z   | FD1CA1PZ       | \$423 | DS-3SP          | 1.00 | 12.3              | 29             | -              | 12.4/6.2       | 24      |
| 1 1/2 | 3600 | 115/230 | 143TZ | FD32CA1P14     | \$582 | DS-3SP          | 1.00 | 13.3              | 32             | 73.0           | 17.4/8.7       | 24      |
| 2     | 3600 | 115/230 | 143TZ | FD2CA1P14      | \$686 | DS-3SP          | 1.00 | 13.8              | 32             | 75.5           | 22.2/11.1      | 24      |
| 3     | 3600 | 230     | 145TZ | FD3CA1K14      | \$719 | DS-3SP          | 1.00 | 13.7              | 42             | 78.5           | 14.9           | CSCR,24 |

## Crop Dryer - Cap Start

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 5-7   | 3600 | 230     | 184TZ | FD5CM1K18Z     | \$1,160 | DS-3SP          | 1.00 | 18.4              | 90             | 82.8           | 21.0           | 23    |
| 7.5-9 | 3600 | 230     | 184TZ | FD7CM1K18Z     | \$1,240 | DS-3SP          | 1.00 | 18.4              | 90             | 88.7           | 30.0           | 23    |
| 10-12 | 3600 | 230     | 215TZ | FD10CM1K21Z    | \$1,859 | DS-3SP          | 1.15 | 20.4              | 127            | 85.2           | 40.0           | 23    |

Note 23 Manual Reset Thermal Protector Overload  
Note 24 Automatic Reset Thermal Protector Overload  
Note CSCR Capacitor Start /Capacitor Run

† All marks shown within this document are properties of their respective owners.



## Special Application Farm Single Phase Direct Drive Poultry Fan

### APPLICATIONS:

For direct drive exhaust and vent fans in poultry and livestock houses.

### FEATURES:

- Continuous Duty
- PSC Models Include Capacitor Mounted With Cover
- Clockwise Drive End Rotation
- Automatic Reset Thermal Overload Protection
- Studs For Mounting Fan Guard
- 1.0 Service Factor Except Where Noted
- Terminal Board With Side Conduit Plug Unless Noted
- **Discount Symbol: DS-3HAC**



### Yoke Mount, Welded Tab Fan Motors

| HP  | RPM/<br>Spds | Voltage | Frame | Catalog<br>Number | List  | Discount<br>Symbol | Amps | Motor<br>Type | Bearings | Enclosure | Ship Wt.<br>(lbs) | Notes |
|-----|--------------|---------|-------|-------------------|-------|--------------------|------|---------------|----------|-----------|-------------------|-------|
| 1/4 | 1100/2       | 115     | 48Y   | 1931*             | \$384 | DS-3HAC            | 3.0  | PSC           | SAB      | TEAO      | 13                | H27   |
|     | 1075/2       | 115     | 48Y   | 1933              | \$405 | DS-3HAC            | 5.7  | PSC           | Ball     | OA0       | 19                | H27   |
|     | 1075/2       | 115     | 48YZ  | 1917*             | \$415 | DS-3HAC            | 4.2  | PSC           | Ball     | TEAO      | 15                |       |
| 1/3 | 1075/2       | 115     | 48YZ  | 1935              | \$218 | DS-3HAC            | 5.3  | PSC           | SAB      | TEAO      | 20                |       |
| 1/2 | 825/1        | 115     | 48YZ  | 1940              | \$344 | DS-3HAC            | 6.4  | PSC           | Ball     | TEAO      | 25                | H27   |
|     | 1075/2       | 115     | 48Y   | 1838              | \$456 | DS-3HAC            | 5.8  | PSC           | Ball     | TEAO      | 23                | H27   |
|     | 1075/2       | 115     | 48Y   | 1924              | \$489 | DS-3HAC            | 7.2  | PSC           | Ball     | TEAO      | 23                |       |
|     | 1075/2       | 115     | 48YZ  | 1937              | \$463 | DS-3HAC            | NULL | PSC           | Ball     | TEAO      | 18                | H27   |

Note H27 Includes Cord and Pull Chain

\* Catalog # 1931 has 1/2" diameter shaft 3" long

\* Catalog # 1917 has 1/2" diameter shaft 2.5" long

† All marks shown within this document are properties of their respective owners.



# Special Application Farm Single and Three Phase Direct Drive Poultry Fan



## APPLICATIONS:

For direct drive exhaust and vent fans in poultry and livestock houses.

## FEATURES:

- Ball Bearings
- 40°C Ambient
- TEAO Enclosure except where noted
- Class B Insulation
- Continuous Air Over Duty
- Discount Symbol: DS-3FMP (except where noted)

### Single Phase, Permanent Split Capacitor, Resilient Mount

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Mounting    | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Shaft Dim. (inches) | Notes |
|-----|------|---------|-------|----------------|-------|-------------|------|-------------------|----------------|----------------|---------------------|-------|
| 1/2 | 1800 | 115/230 | 48Y   | 1850           | \$295 | CRADLE/ STD | 1.00 | 10.9              | 23             | 5.0/2.5        | 1/2 DIA X 2-1/2"L   | 24    |

### Single Phase, Permanent Split Capacitor, Stud Mount

| HP  | RPM | Voltage | Frame | Catalog Number | List  | Mounting | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Shaft Dim. (inches)     | Notes |
|-----|-----|---------|-------|----------------|-------|----------|------|-------------------|----------------|----------------|-------------------------|-------|
| 1/2 | 900 | 115/230 | 48YZ  | 8102           | \$446 | STUD     | 1.25 | 10.2              | 22             | 6.0/3.0        | 0.625 DIA X 2.625 - KEY | 24    |

### Single Phase, Permanent Split Capacitor, Rigid Mount

| HP  | RPM | Voltage | Frame | Catalog Number | List  | Mounting | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Shaft Dim. (inches) | Notes |
|-----|-----|---------|-------|----------------|-------|----------|------|-------------------|----------------|----------------|---------------------|-------|
| 1/2 | 900 | 115/230 | 56Z   | FD12AA4P       | \$587 | RIGID    | 1.00 | 11.4              | 35             | 6.4/3.2        | 5/8 DIA X 2-1/2"L   | 24    |

### Single Phase, Permanent Split Capacitor, Face Mount

| HP | RPM | Voltage | Frame | Catalog Number | List  | Mounting | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Shaft Dim. (inches) | Notes |
|----|-----|---------|-------|----------------|-------|----------|------|-------------------|----------------|----------------|---------------------|-------|
| 1  | 900 | 230     | 56YZ  | 1837           | \$837 | C-FACE   | 1.00 | 13.3              | 32             | 5.2            | 3/4 DIA X 3-1/4"L   |       |
|    | 900 | 230     | 56YZ  | FD1AA4KCR      | \$551 | C-FACE   | 1.00 | 13.9              | 32             | 5.8            | 5/8 DIA X 2-1/2"L   | 24    |

### Three Phase, Face Mount

| HP    | RPM | Voltage | Frame  | Catalog Number | List    | Mounting      | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Shaft Dim. (inches) | Notes |
|-------|-----|---------|--------|----------------|---------|---------------|------|-------------------|----------------|----------------|---------------------|-------|
| 1     | 900 | 440-460 | 56YZ   | 8101           | \$887   | C-FACE        | 1.00 | 13.6              | 32             | 1.9-2.0        | 3/4 DIA X 3-1/4"L   | 24    |
| 1 1/2 | 900 | 460     | 184TCH | UN32S4CKR      | \$2,344 | HORZ-FOOTLESS | 1.25 | 16.9              | 60             | 3.8            | N/A                 |       |

Note 24 Automatic Reset Thermal Protector Overload

† All marks shown within this document are properties of their respective owners.



# Special Application Agriculture Auger Duty Motors



CAPACITOR START

## APPLICATIONS:

For use on augers.

## FEATURES:

- Totally Enclosed Fan Cooled (except where noted)
- Class B Insulation
- Manual Reset Thermal Overload Protector
- 1/2 HP & Above Have ODE Shaft Extension for Hand Crank
- Ball Bearings
- 56Y are Keyed; 56YZ are Flat Shaft
- Reversible Rotation
- Footless (except where noted)

## Capacitor Start

| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps    | Notes      |
|-------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|-------------------|------------|
| 1/2   | 1800 | 115/230 | 56Y   | 1843           | \$644 | DS-3FMP         | 1.00 | 11.6              | 29             | 8.0/4.0&9.6/4.8   | Footed     |
|       | 1800 | 115/230 | 56Y   | FD12CM2PZY     | \$515 | DS-3FMP         | 1.00 | 11.6              | 32             | 8.0/4.0&9.6/4.8   | 98, Footed |
|       | 1800 | 115/230 | 56Y   | FD12CM2PZYR    | \$350 | DS-3FMP         | 1.00 | 12.0              | 22             | 8.6/4.3&10.4/5.4  |            |
| 3/4   | 1800 | 115/230 | 56Y   | FD34CM2PZYR    | \$590 | DS-3FMP         | 1.00 | 12.6              | 32             | 10.6/5.3&11.8/5.9 |            |
|       | 1800 | 115/230 | 56YZ  | FD34CM2PZY     | \$568 | DS-3FMP         | 1.00 | 12.6              | 32             | 10.6/5.3&11.8/5.9 |            |
| 1     | 1800 | 115/230 | 56Y   | FD1CM2PZY      | \$652 | DS-3FMP         | 1.00 | 12.94             | 38             | 12.8/6.5-6.4      | Footed     |
| 1 1/2 | 1800 | 115/230 | 56HY  | FD32CM2PHZY    | \$814 | DS-3FMP         | 1.15 | 13.9              | 45             | 16.2/8.1          | 23, Footed |

## Split Phase

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps  | Notes    |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|-----------------|----------|
| 1/3 | 1800 | 115/230 | 56YZ  | FD13BM2PZYR    | \$313 | DS-3FMP         | 1.00 | 11.5              | 22             | 5.3/2.6&5.9/3.0 | 23,28,95 |

## Three Phase

| HP    | RPM  | Voltage             | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps      | Notes  |
|-------|------|---------------------|-------|----------------|-------|-----------------|------|-------------------|----------------|---------------------|--------|
| 1/3   | 1800 | 190/380&208-230/460 | 56Y   | FD13SM2DZYR    | \$424 | DS-3FMP         | 1.00 | 11.2              | 26             | 2.0/1.0&1.8-2.0/1.0 |        |
| 1/2   | 1800 | 190/380&208-230/460 | 56Y   | FD12SM2DZYR    | \$467 | DS-3FMP         | 1.00 | 11.8              | 17             | 2.2/1.1&2.0-2.0/1.0 |        |
|       | 1800 | 190/380&208-230/460 | 56Y   | FD32SM2DZYR    | \$467 | DS-3FMP         | 1.00 | 11.8              | 17             | 2.2/1.1&2.0-2.0/1.0 | LA,NNP |
| 3/4   | 1800 | 190/380&208-230/460 | 56Y   | FD34SM2DZYR    | \$526 | DS-3FMP         | 1.00 | 11.8              | 27             | 3.0/1.5&2.7-2.6/1.3 |        |
| 1     | 1800 | 190/380&208-230/460 | 56Y   | FD1PM2DZYR     | \$549 | DS-3FMP         | 1.15 | 13.0              | 36             | 3.5/1.8&3.3-3.2/1.5 |        |
|       | 1800 | 190/380&208-230/460 | 56Y   | FD1SM2DZYR     | \$424 | DS-3FMP         | 1.00 | 11.2              | 26             | 2.0/1.0&1.8-2.0/1.0 | LA,NNP |
| 1 1/2 | 1800 | 190/380&208-230/460 | 56Y   | FD32PM2DZYR    | \$633 | DS-3FMP         | 1.15 | 14.0              | 38             | 5.4/2.7&4.8-4.5/2.3 |        |

Note 23 Manual Reset Thermal Protector Overload

Note 28 TENV Enclosure

Note 95 Nutride shaft

Note 98 50/60 Hertz Motor

Note FTLS Footless

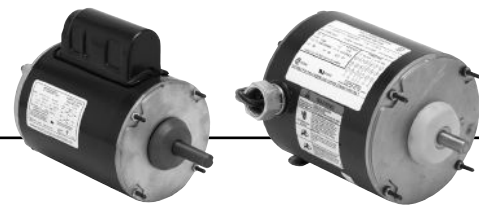
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# Special Application Agriculture

## Agri Duty Fan and Hatcher/Setter Motors



Agri Duty Fan

Hatcher/Setter

### APPLICATIONS:

Agri duty fans for direct drive and vent fans in poultry and livestock houses.  
Hatcher and setter motors are used in hatchers and setters.

### FEATURES:

#### Agri Duty Fan Motors

- Ball Bearings
- 40°C Ambient, Continuous Duty
- Totally Enclosed Air Over (TEAO) Enclosure
- Rigid Base (except where noted)
- Class B Insulation
- Automatic Reset Thermal Overload Protector
- Built-in Conduit Box
- Split Phase & Capacitor Start (see notes below)

#### Hatcher & Setter Motors

- Ball Bearings
- 40°C Ambient
- Totally Enclosed Air Over (TEAO) Enclosure
- Class B Insulation
- Continuous Air Over Duty
- Permanent Split Capacitor
- Shaft Dimensions 0.5 Dia. X 1.5 Length
- Reversible Rotation (except where noted)

### Agri Duty Fan Motors - Single Phase

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes      |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|------------|
| 1/2   | 1800 | 115/230     | 56    | FD12BA2P       | \$406 | DS-3FMP         | 1.25 | 11.4              | 24             | 8.0/4.0        | 94         |
|       | 1800 | 115/230     | 56    | FD12BA2P9      | \$417 | DS-3FMP         | 1.25 | 12.3              | 32             | 5.4/2.7        | 35,94      |
| 3/4   | 1800 | 115/230     | 56    | FD34BA2P       | \$481 | DS-3FMP         | 1.25 | 11.9              | 32             | 10.8/5.4       | 94         |
| 1     | 1800 | 115/208-230 | 56    | FD1CA2J        | \$552 | DS-3FMP         | 1.15 | 12.4              | 32             | 10.9/5.4-5.4   | CSCR       |
|       | 1750 | 115/208-230 | 56H   | FD1CPA2JH      | \$682 | DS-3FMP         | 1.40 | 12.89             | 40             | 9.0/4.5        | 98,CSCR,24 |
| 1 1/2 | 1800 | 115/230     | 56    | FD32CA2P       | \$653 | DS-3FMP         | 1.00 | 12.9              | 39             | 13.0/6.5       | CSCR       |

### Agri Duty Fan Motors - Three Phase

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/2   | 1800 | 208-230/460 | 56H   | FD12SA2D       | \$336 | DS-3FMP         | 1.15 | 10.9              | 17             | 1.8-1.8/0.9    | 24,98 |
| 1     | 1725 | 208-230/460 | 56H   | FD1EA2D        | \$415 | DS-3FMP         | 1.15 | 11.89             | 29             | 3.1/1.5        | 24,98 |
|       | 1800 | 208-230/460 | 56H   | FD1PA2DH       | \$415 | DS-3FMP         | 1.15 | 11.9              | 35             | 3.3-3.2/1.5    | 24,98 |
| 1 1/2 | 1725 | 208-230/460 | 56H   | FD32EA2D       | \$453 | DS-3FMP         | 1.15 | 11.89             | 31             | 4.7/2.3        | 24,98 |
|       | 1800 | 208-230/460 | 56H   | FD32PA2DH      | \$453 | DS-3FMP         | 1.15 | 12.4              | 37             | 4.8-4.5/2.3    | 24,98 |

### Hatcher & Setter Motors

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/2 | 1800 | 115/230 | 48YZ  | FD12AM2P4ZR    | \$487 | DS-3FMP         | 1.00 | 9.4               | 19             | 5.0/2.5        | 23    |

Note 23 Manual Reset Thermal Protector Overload  
Note 24 Automatic Reset Thermal Protector Overload  
Note 35 Resilient Base

Note 94 Split phase  
Note 98 50/60 Hertz Motor  
Note CSCR Capacitor Start /Capacitor Run

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**WE BUILD MORE THAN MOTORS.**

**WE BUILD  
EFFICIENCY.**



## Variable Frequency Drives

### AD 1000

- High Performance
- Reduced Energy Consumption
- Automatically adjusts to changing conditions in a wide variety of water, wastewater, irrigation and other pumping applications

### AD 700E

- Cost effective, easy-to-use general purpose drive
- Provides precise motor control
- Energy efficient
- Compact



# Commercial Duty Pump Motors

For use on chiller, condensate and other HVACR duty pumps, booster, irrigation, dishwasher and parts washer pumps, along with many other commercial duty applications.



**Horsepower:** 1/4 – 60 HP

**Phase:** Single and Three Phase

**RPM:** 3600, 1800 or 1200 RPM

**Voltage:**

- Single Phase: 208-230/115 Volts, 50/60 Hz options
- Three Phase: 208-230/460 and 190/380-415 Volts, 60/50 Hz (575 Volts available)

**Efficiency:** Standard, Energy Efficient and EXTREME-E®

**Bolt-On Base:** Many ratings provide for removable base construction

**Mounting Options:**

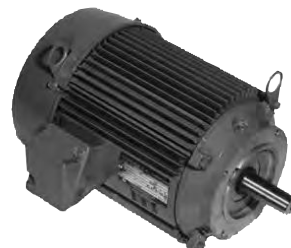
- NEMA®† 56C, TC, TSC and 56J
- Bolt-on base models provide for both shaft down, vertically mounted pump applications and rigid base, horizontally mounted pump applications

**Enclosure:** Open Dripproof (ODP) and Totally Enclosed Fan Cooled (TEFC)

**Bearings:** Double sealed ball bearings on all 56-Frame commercial duty pump motors. Double shielded ball bearings on all other motors.

**303 Stainless Steel Shaft Extensions:** on 56J mount motors providing superior corrosion resistance

**Agency:** UL®† Recognized and CSA®† Certified



**Three Phase,  
(TEFC) C-Face**



**Single Phase,  
(ODP) C-Face**



**Split Phase Hot Water  
Circulating Pump, (ODP)**

† All marks shown within this document are properties of their respective owners.

# Special Application Commercial Pump Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face



## APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

## FEATURES:

- Totally Enclosed, 50 Hertz Motors supplied with CE Markings
- Double Sealed Ball Bearings On All 56 Frame Commercial Duty Pump Motors
- Double Shielded Ball Bearings On All Other Motors
- Continuous Duty
- 60 Hertz & 60/50 Hertz
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- 40°C Ambient
- Shaft Slinger On Pulley End
- NEMA® 'C' Flange Mounting
- Premium 303 S.S. on 56J Mount: 7/16-20 UNC-2A
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Max Amps     | Notes  |
|-------|------|-------------|-------|----------------|-------|-----------------|-------------|------|-------------------|----------------|----------------|--------------|--------|
| 1/4   | 1800 | 208-230/460 | 56C   | U14S2AC        | \$246 | DS-3RST         | Rigid       | 1.25 | 10.8              | 20             | 70.0           | 1.3-1.4/0.7  | 26     |
|       | 1800 | 208-230/460 | 56C   | U14S2DCR       | \$231 | DS-3RST         | No          | 1.25 | 10.8              | 23             | 70.0           | 1.0-1.0/0.5  | 26, 98 |
|       | 1800 | 575         | 56C   | U14S2GC        | \$246 | DS-3RST         | Rigid       | 1.25 | 10.8              | 22             | 75.5           | 0.4          | 26     |
|       | 1200 | 208-230/460 | 56C   | U14S3AC        | \$323 | DS-3RST         | Rigid       | 1.25 | 10.8              | 22             | 72.0           | 1.1-1.2/0.6  | 26     |
| 1/3   | 1800 | 208-230/460 | 56C   | U13S2AC        | \$281 | DS-3RST         | Rigid       | 1.25 | 10.8              | 20             | 72.0           | 1.4-1.5/0.7  | 26     |
|       | 1800 | 575         | 56C   | U13S2GC        | \$281 | DS-3RST         | Rigid       | 1.25 | 10.8              | 47             | 75.5           | 0.5          | 26     |
|       | 1200 | 208-230/460 | 56C   | U13S3AC        | \$361 | DS-3RST         | Rigid       | 1.25 | 10.8              | 23             | 75.5           | 1.3-1.3/0.6  | 26     |
| 1/2   | 3600 | 208-230/460 | 56C   | U12S1AC        | \$306 | DS-3RST         | Rigid       | 1.25 | 10.8              | 25             | 70.0           | 1.7-1.6/0.8  | 26     |
|       | 3600 | 208-230/460 | 56J   | EE283          | \$296 | DS-3RST         | No          | 1.61 | 11.2              | 17             | -              | 2.0-1.9/0.95 | 26     |
|       | 1800 | 208-230/460 | 56C   | U12S2AC        | \$306 | DS-3RST         | Rigid       | 1.25 | 10.8              | 26             | 74.0           | 1.8-1.8/0.9  | 26     |
|       | 1800 | 208-230/460 | 56C   | U12S2ACR       | \$291 | DS-3RST         | No          | 1.25 | 10.8              | 25             | 75.5           | 1.8-1.7/0.9  | 26     |
|       | 1800 | 208-230/460 | 56C   | U12P2DCR       | \$378 | DS-3RST         | No          | 1.25 | 12.1              | 30             | 82.5           | 1.8-1.8/0.9  | 26, 98 |
|       | 1800 | 575         | 56C   | U12S2GC        | \$306 | DS-3RST         | Rigid       | 1.25 | 10.8              | 36             | 74.0           | 0.7          | 26     |
|       | 1200 | 208-230/460 | 56C   | U12S3AC        | \$393 | DS-3RST         | Rigid       | 1.25 | 11.5              | 26             | 72.0           | 2.2-2.2/1.1  |        |
|       | 3600 | 208-230/460 | 56C   | U34S1AC        | \$319 | DS-3RST         | Rigid       | 1.25 | 10.8              | 26             | 74.0           | 2.5-2.2/1.1  | 26     |
| 3/4   | 3600 | 280-230/460 | 56C   | U34S1ACR       | \$304 | DS-3RST         | No          | 1.25 | -                 | 27             | 75.5           | 1.3/2.6      |        |
|       | 3600 | 208-230/460 | 56J   | EE515          | \$309 | DS-3RST         | No          | 1.50 | 11.9              | 17             | -              | 2.8-2.7/1.35 | 98     |
|       | 3600 | 208-230/460 | 56J   | EE515B         | \$324 | DS-3RST         | Rigid       | 1.50 | -                 | 22             | -              | 3.7-3.6/1.8  | 98     |
|       | 3600 | 575         | 56J   | EE515-5        | \$307 | DS-CPMP         | No          | 1.15 | 11.6              | 27             | -              | 1.0          | 26     |
|       | 1800 | 208-230/460 | 56C   | U34S2AC        | \$329 | DS-3RST         | Rigid       | 1.25 | 10.8              | 32             | 77.0           | 2.7-2.7/1.4  | 26     |
|       | 1800 | 208-230/460 | 56C   | U34S2ACR       | \$314 | DS-3RST         | No          | 1.25 | 13.1              | 28             | 78.5           | 2.6-2.7/1.3  | 26     |
|       | 1800 | 208-230/460 | 56C   | U34P2DCR       | \$408 | DS-3RST         | No          | -    | 12.1              | 30             | 84.0           | 2.3-2.3/1.3  |        |
|       | 1800 | 575         | 56C   | U34S2GC        | \$329 | DS-3RST         | Rigid       | 1.25 | 10.8              | 27             | 75.5           | 1.1          | 26     |
|       | 1200 | 208-230/460 | 143TC | U34S3DC        | \$464 | DS-3RST         | Rigid       | 1.25 | 12.1              | 30             | 72.0           | 3.1-3.1/1.6  | 26     |
|       | 1200 | 208-230/460 | 56C   | U34S3AC        | \$464 | DS-3RST         | Rigid       | 1.25 | 12.9              | 33             | -              | 3.1-3.2/1.6  |        |
|       | 3600 | 208-230/460 | 56C   | U1S1AC         | \$360 | DS-3RST         | Rigid       | 1.25 | 10.8              | 15             | 74.0           | 3.2-2.9/1.5  | 26, LA |
|       | 3600 | 208-230/460 | 56C   | U1P1DCR        | \$488 | DS-3RST         | No          | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4  |        |
|       | 3600 | 208-230/460 | 143TC | U1P1DC         | \$503 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 81.5           | 2.9-2.7/1.4  |        |
|       | 3600 | 208-230/460 | 56J   | EE516          | \$350 | DS-3RST         | No          | 1.40 | 11.2              | 29             | -              | 3.5-3.4/1.7  | 98     |
|       | 3600 | 208-230/460 | 56J   | EE516B         | \$365 | DS-3RST         | Rigid       | 1.40 | -                 | 29             | -              | 4.4-4.2/2.1  | 98     |
| 1     | 1800 | 208-230/460 | 56C   | U1S2AFC        | \$347 | DS-3RST         | Rigid       | 1.25 | 10.8              | 28             | 80.0           | 3.4-3.4/1.7  | 26, LA |
|       | 1800 | 208-230/460 | 56J   | EE684          | \$357 | DS-3RST         | Remove      | 1.15 | 12.4              | 28             | -              | 3.6-3.4/1.7  | 98     |
|       | 1800 | 208-230/460 | 143TC | U1P2DC         | \$503 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 85.5           | 3.1-3.0/1.5  |        |
|       | 1800 | 208-230/460 | 143TC | U1P2DCR        | \$488 | DS-3RST         | No          | 1.25 | 12.1              | 30             | 85.5           | 3.1-3.0/1.5  |        |
|       | 1800 | 208-230/460 | 56C   | U1P2DFCR       | \$488 | DS-3RST         | No          | 1.25 | 10.8              | 30             | 85.5           | 3.1-3.0/1.5  |        |
|       | 1800 | 575         | 56C   | U1P2GFC        | \$440 | DS-3RST         | Rigid       | 1.25 | 10.8              | 40             | 81.5           | 1.4          | 26     |
|       | 1800 | 575         | 56C   | U1P2GFC        | \$440 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 85.5           | 1.1          |        |
|       | 1800 | 575         | 56C   | U1P2GFCR       | \$488 | DS-3RST         | No          | 1.25 | 13.1              | 30             | 85.5           | 1.1          |        |
|       | 1800 | 575         | 143TC | U1P2GC         | \$503 | DS-3RST         | Rigid       | 1.25 | -                 | 30             | 85.5           | 1.3          |        |
|       | 1200 | 208-230/460 | 145TC | U1P3DC         | \$655 | DS-3RST         | Rigid       | 1.25 | -                 | 35             | 82.5           | 2.0/4.0      |        |
|       | 1200 | 575         | 145TC | U1P3GC         | \$655 | DS-3RST         | -           | 1.25 | -                 | 35             | 82.5           | 1.6          |        |
|       | 1200 | 208-230/460 | 56C   | U1P3DFC        | \$655 | DS-3RST         | Rigid       | 1.25 | 10.8              | 36             | 78.5           | 3.8-3.9/2    | 26     |
|       | 1200 | 208-230/460 | 56C   | U1P3DFC        | \$655 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 82.5           | 3.6-3.5-1.8  |        |
| 1 1/2 | 3600 | 208-230/460 | 143TC | U32P1DC        | \$567 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 84.0           | 4.2-3.9/1.9  |        |
|       | 3600 | 575         | 143TC | U32P1GC        | \$567 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 84.0           | 1.6          |        |
|       | 3600 | 200         | 143TC | U32P1HC        | \$567 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 84.0           | 4.4          |        |
|       | 3600 | 208-230/460 | 56C   | U32P1DFC       | \$500 | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 84.0           | 4.2-3.9/1.9  |        |
|       | 3600 | 208-230/460 | 56C   | U32S1AFC       | \$400 | DS-3RST         | Rigid       | 1.25 | 10.8              | 32             | 78.5           | 4.6-4/2      | 26, LA |

Note 26 Does not include WORLD MOTOR® features

Note 98 50/60 Hertz Motor

Note LA Limited Availability

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# Special Application Commercial Pump Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face



(continued)

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Max Amps    | Notes  |
|-------|------|-------------|--------|----------------|---------|-----------------|-------------|------|-------------------|----------------|----------------|-------------|--------|
| 1 1/2 | 3600 | 208-230/460 | 56J    | EE661          | \$390   | DS-3RST         | No          | 1.30 | 12.9              | 17             | 84             | 4.9-4.6/2.4 | 98     |
|       | 3600 | 208-230/460 | 56J    | EE661B         | \$405   | DS-3RST         | Rigid       | 1.30 | 12.9              | 17             | 84             | 4.9-4.6/2.4 |        |
|       | 1800 | 208-230/460 | 56C    | U32S2AFCR      | \$369   | DS-3RST         | No          | 1.25 | 10.8              | 32             | 80.0           | 5.1-5.0/2.5 | 26, LA |
|       | 1800 | 208-230/460 | 56C    | U32S2AFC       | \$384   | DS-3RST         | Rigid       | 1.25 | 12.1              | 32             | 81.5           | 4.7-4.7/2.3 | 26, LA |
|       | 1800 | 208-230/460 | 145TC  | U32P2DCR       | \$534   | DS-3RST         | Rigid       | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1 |        |
|       | 1800 | 575         | 56C    | U32P2GFCR      | \$426   | DS-3RST         | Rigid       | 1.25 | 12.1              | 32             | 80.0           | 1.9         | 26     |
|       | 1800 | 575         | 56C    | U32P2GFCR      | \$426   | DS-3RST         | No          | 1.25 | 13.1              | 30             | 86.5           | 1.7         |        |
|       | 1800 | 208-230/460 | 56C    | U32P2DFC       | \$442   | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1 |        |
|       | 1800 | 208-230/460 | 56C    | U32P2DFCR      | \$426   | DS-3RST         | No          | 1.25 | 13.1              | 30             | 86.5           | 4.5-4.3/2.1 |        |
|       | 1800 | 575         | 56C    | U32P2GFC       | \$442   | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 86.5           | 1.7         |        |
|       | 1800 | 208-230/460 | 145TC  | U32P2DC        | \$549   | DS-3RST         | Rigid       | 1.25 | 13.1              | 35             | 86.5           | 4.5-4.3/2.1 |        |
|       | 1800 | 208-230/460 | 145TC  | U32P2DCR       | \$534   | DS-3RST         | No          | 1.25 | 13.1              | 40             | 86.5           | 4.5-4.3/2.1 | 98     |
|       | 1800 | 208-230/460 | 145TC  | U32E2DCR       | \$439   | DS-3RST         | No          | 1.25 | 12.1              | 35             | 84.0           | 4.6-4.3/2.2 | LA     |
|       | 1800 | 575         | 145TC  | U32P2GCR       | \$534   | DS-3RST         | No          | 1.25 | 13.1              | 35             | 86.5           | 1.7         |        |
|       | 1800 | 575         | 145TC  | U32P2GC        | \$549   | DS-3RST         | Rigid       | 1.25 | 13.1              | 35             | 86.5           | 1.7         |        |
|       | 1800 | 200         | 145TC  | U32P2HC        | \$549   | DS-3RST         | Rigid       | 1.25 | 13.1              | 35             | 86.5           | 4.7         |        |
|       | 1200 | 208-230/460 | 182TC  | U32P3DC        | \$845   | DS-3AL          | Rigid       | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3 |        |
|       | 1200 | 208-230/460 | 182TC  | U32P3DCR       | \$815   | DS-3AL          | No          | 1.25 | 16.2              | 60             | 87.5           | 4.8-4.7/2.3 |        |
| 2     | 1200 | 575         | 182TC  | U32P3GC        | \$845   | DS-3AL          | Rigid       | 1.25 | 16.2              | 60             | 87.5           | 1.8         |        |
|       | 3600 | 208-230/460 | 145TC  | U2P1DC         | \$659   | DS-3RST         | Rigid       | 1.25 | 12.1              | 30             | 80.0           | 5.9-5.3/2.6 | 26     |
|       | 3600 | 208-230/460 | 56C    | U2P1DFC        | \$546   | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 86.5           | 5.4-4.9/2.5 |        |
|       | 3600 | 575         | 145TC  | U2P1GC         | \$659   | DS-3RST         | Rigid       | 1.25 | 13.1              | 35             | 86.5           | 2           | 26     |
|       | 3600 | 208-230/460 | 56C    | U2S1AFC        | \$475   | DS-3RST         | Rigid       | 1.25 | 12.1              | 30             | 80.0           | 5.9-5.3/2.6 | 26, LA |
|       | 3600 | 208-230/460 | 56J    | EE706          | \$465   | DS-3RST         | No          | 1.25 | 13.4              | 36             | 85.5           | 6.6-6.1/3.1 | 98     |
|       | 3600 | 208-230/460 | 56J    | EE706B         | \$480   | DS-3RST         | Rigid       | 1.25 | 13.4              | 36             | 85.5           | 6.6-6.1/3.1 | 98     |
|       | 1800 | 208-230/460 | 56C    | U2P2DFC        | \$484   | DS-3RST         | Rigid       | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8 |        |
|       | 1800 | 208-230/460 | 56C    | U2P2DFCR       | \$467   | DS-3RST         | No          | 1.25 | 13.1              | 30             | 86.5           | 5.9-5.7/2.8 |        |
|       | 1800 | 575         | 145TC  | U2P2GC         | \$593   | DS-3RST         | Rigid       | 1.25 | 13.1              | 35             | 86.5           | 2.3         |        |
|       | 1800 | 575         | 145TC  | U2P2GCR        | \$578   | DS-3RST         | No          | 1.25 | 13.1              | 35             | 86.5           | 2.3         |        |
|       | 1800 | 208-230/460 | 145TC  | U2P2DC         | \$593   | DS-3RST         | Rigid       | 1.25 | 13.1              | 35             | 86.5           | 5.9-5.7/2.8 |        |
|       | 1800 | 208-230/460 | 145TC  | U2E2DCR        | \$475   | DS-3RST         | No          | 1.25 | 13.1              | 35             | 84.0           | 5.9-5.7/2.8 | LA     |
|       | 1800 | 208-230/460 | 56C    | U2S2AFC        | \$421   | DS-3RST         | Rigid       | 1.25 | 10.8              | 42             | 82.5           | 6.3-6.3/3.2 | 26, LA |
|       | 1800 | 208-230/460 | 56C    | U2S2AFCR       | \$406   | DS-3RST         | No          | 1.25 | 10.8              | 43             | 82.5           | 6.2-6.2/3.1 | 26, LA |
|       | 1800 | 575         | 56C    | U2S2GFC        | \$421   | DS-3RST         | Rigid       | 1.25 | 12.5              | 39             | -              | 2.5         | LA     |
|       | 1200 | 208-230/460 | 184TC  | U2P3DC         | \$930   | DS-3AL          | Rigid       | 1.25 | 16.2              | 70             | 88.5           | 6.4-6.2/3.1 |        |
|       | 1200 | 208-230/460 | 184TC  | U2P3DCR        | \$900   | DS-3AL          | No          | 1.25 | 16.2              | 70             | 88.5           | 6.4-6.2/3.1 |        |
| 3     | 3600 | 208-230/460 | 182TC  | U3E1DCR        | \$688   | DS-3AL          | No          | 1.25 | 16.1              | 58             | 85.5           | 8.7-8/4     | 03, LA |
|       | 3600 | 208-230/460 | 182TC  | U3P1DFC        | \$600   | DS-3RST         | Rigid       | 1.25 | 16.1              | 30             | 86.5           | 8.1-7.2/3.6 |        |
|       | 3600 | 208-230/460 | 182TCH | U3E1DKR        | \$688   | DS-3AL          | No          | 1.25 | 16.1              | 53             | 85.5           | 8.7-8/4     | 03, LA |
|       | 3600 | 208-230/460 | 182TCH | U3P1DK         | \$860   | DS-3AL          | Rigid       | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9 |        |
|       | 3600 | 208-230/460 | 182TCH | U3P1DKR        | \$830   | DS-3AL          | No          | 1.25 | 16.2              | 50             | 87.5           | 8.4-7.8/3.9 |        |
|       | 3600 | 208-230/460 | 56C    | U3S1AFC        | \$522   | DS-3RST         | Rigid       | 1.25 | 10.8              | 32             | 82.5           | 8.5-7.5/3.8 | 26, LA |
|       | 3600 | 208-230/460 | 56J    | EE707          | \$512   | DS-3RST         | No          | 1.15 | 13.9              | 42             | 86.5           | 9.1-8.2/4.2 | LA     |
|       | 3600 | 208-230/460 | 56J    | EE707B         | \$527   | DS-3RST         | Rigid       | 1.15 | 13.9              | 42             | 86.5           | 9.1-8.2/4.2 | LA     |
|       | 3600 | 208-230/460 | 56C    | U3P1DFC        | \$600   | DS-3RST         | Rigid       | 2.25 | 13.1              | 30             | 86.5           | 8.1-7.2/3.6 |        |
|       | 3600 | 208-230/460 | 145TC  | U3P1A14C       | \$772   | DS-3RST         | Rigid       | 1.25 | 16.2              | 35             | 86.5           | 8.1-7.2/3.6 |        |
|       | 3600 | 208-230/460 | 182TC  | U3P1DCR        | \$830   | DS-3AL          | No          | 1.25 | 16.2              | 60             | 87.5           | 8.4-7.9/3.9 |        |
|       | 3600 | 208-230/460 | 182TC  | U3P1DC         | \$860   | DS-3AL          | Rigid       | 1.25 | 16.2              | 20             | 88.5           | 8.4-7.9/3.9 |        |
|       | 3600 | 575         | 56J    | U3E2DCR        | \$618   | DS-3AL          | Remove      | 1.15 | 13.4              | 42             | 85.5           | 2.9         | LA     |
|       | 1800 | 208-230/460 | 182TC  | U3P2DC         | \$772   | DS-3AL          | No          | 1.25 | 16.1              | 67             | 87.5           | 8.5-7.9/3.9 | 03     |
|       | 1800 | 208-230/460 | 182TC  | U3P2DCR        | \$742   | DS-3AL          | Rigid       | 1.25 | 16.2              | 70             | 89.5           | 8.4-7.8/3.9 |        |
|       | 1800 | 208-230/460 | 182TCH | U3P2DK         | \$772   | DS-3AL          | Rigid       | 1.25 | 16.2              | 60             | 89.5           | 8.4-7.8/3.9 |        |
|       | 1800 | 575         | 182TC  | U3P2GC         | \$772   | DS-3AL          | Rigid       | 1.25 | 16.2              | 60             | 89.5           | 3.2         |        |
|       | 1200 | 208-230/460 | 213TC  | U3P3DCR        | \$1,105 | DS-3AL          | No          | 1.25 | 16.2              | 105            | 89.5           | 4.3-8.6/9.3 | 03     |
|       | 1200 | 208-230/460 | 213TC  | U3E3DCR        | \$920   | DS-3AL          | No          | 1.25 | 18.6              | 110            | 87.5           | 9.7-9.1/4.5 | 03, LA |
|       | 1200 | 208-230/460 | 213TC  | U3P2DCR        | \$742   | DS-3AL          | No          | 1.25 | 18.8              | 110            | 89.55          | 9.3-8.6/4.3 |        |
|       | 1200 | 208-230/460 | 213TC  | U3P3DC         | \$1,150 | DS-3AL          | Rigid       | 1.25 | 18.8              | 110            | 89.5           | 9.3-8.6/4.3 |        |

Note 02 Suitable for Wye-Delta start on voltages shown  
 Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 26 Does not include WORLD MOTOR® features  
 Note LA Limited Availability

† All marks shown within this document are properties of their respective owners.



# Special Application Commercial Pump Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face

(continued)



| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Max Amps       | Notes      |
|-------|------|-------------|--------|----------------|---------|-----------------|-------------|------|-------------------|----------------|----------------|----------------|------------|
| 5     | 3600 | 208-230/460 | 184TC  | U5E1DCR        | \$845   | DS-3AL          | No          | 1.25 | 16.9              | 120            | 87.5           | 13.8-12.3/6.1  | 03, LA     |
|       | 3600 | 208-230/460 | 184TC  | U5P1DCR        | \$1,026 | DS-3AL          | No          | 1.25 | 16.2              | 70             | 88.5           | 13.4-12.2/6.1  | 03         |
|       | 3600 | 208-230/460 | 184TC  | U5P1DC         | \$1,056 | DS-3AL          | Rigid       | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |            |
|       | 3600 | 208-230/460 | 184TCH | U5P1DK         | \$1,056 | DS-3AL          | Rigid       | 1.25 | 16.2              | 75             | 88.5           | 13.4-12.2/6.1  |            |
|       | 3600 | 208-230/460 | 184TCH | U5P1DKR        | \$1,026 | DS-3AL          | No          | 1.25 | 16.2              | 15             | 88.5           | 13.4-12.2/6.1  |            |
|       | 1800 | 200         | 184TCH | U5P2HK         | \$882   | DS-3AL          | Rigid       | 1.25 | 16.9              | 80             | 89.5           | 14.2           |            |
|       | 1800 | 208-230/460 | 184TC  | U5E2DCR        | \$706   | DS-3AL          | No          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | LA         |
|       | 1800 | 208-230/460 | 184TC  | U5P2DCR        | \$852   | DS-3AL          | No          | 1.25 | 16.9              | 70             | 90.2           | 13.6-12.3/6.2  |            |
|       | 1800 | 208-230/460 | 184TC  | U5P2DC         | \$882   | DS-3AL          | Rigid       | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |            |
|       | 1800 | 208-230/460 | 184TCH | U5E2DKR        | \$706   | DS-3AL          | No          | 1.25 | 16.9              | 70             | 87.5           | 14-12.7/6.3    | 03, LA     |
|       | 1800 | 208-230/460 | 184TCH | U5P2DK         | \$882   | DS-3AL          | Rigid       | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |            |
|       | 1800 | 208-230/460 | 184TCH | U5P2DKR        | \$852   | DS-3AL          | Rigid       | 1.25 | 16.9              | 80             | 90.2           | 13.6-12.3/6.2  |            |
|       | 1800 | 575         | 184TC  | U5P2GC         | \$882   | DS-3AL          | Rigid       | 1.25 | 16.9              | 70             | 89.5           | 5.0            |            |
|       | 1200 | 208-230/460 | 215TC  | U5E3DCR        | \$1,278 | DS-3AL          | No          | 1.25 | 20.1              | 140            | 87.5           | 15.6-14.5/7.3  | 03, LA     |
|       | 1200 | 208-230/460 | 215TC  | U5P3DCR        | \$1,552 | DS-3AL          | No          | 1.25 | 20.1              | 120            | 90.2           | 15.0-14.0/7.0  | 03         |
|       | 1200 | 208-230/460 | 215TC  | U5P3DC         | \$1,597 | DS-3AL          | Rigid       | 1.25 | 20.3              | 135            | 90.2           | 15-14/7        |            |
| 7 1/2 | 1200 | 575         | 215TC  | U5E3GCR        | \$1,278 | DS-3AL          | No          | 1.25 | 20.1              | 140            | 87.5           | 5.8            | LA         |
|       | 1200 | 575         | 215TC  | U5P3GC         | \$1,597 | DS-3AL          | Rigid       | 1.25 | 20.3              | 135            | 89.5           | 5.6            |            |
|       | 3600 | 208-230/460 | 213TC  | U7E1DCR        | \$1,045 | DS-3AL          | No          | 1.25 | 18.6              | 100            | 88.5           | 20.4-18.4/9.2  | 03, LA     |
|       | 3600 | 208-230/460 | 213TC  | U7P1DCR        | \$1,261 | DS-3AL          | No          | 1.25 | 18.6              | 105            | 91.0           | 19.9-17.8/8.9  | 03         |
|       | 3600 | 208-230/460 | 213TC  | U7P1DC         | \$1,306 | DS-3AL          | Rigid       | 1.25 | 18.8              | 105            | 91.0           | 19.9-17.8/8.9  | 03         |
|       | 3600 | 575         | 213TC  | U7P1GC         | \$1,306 | DS-3AL          | Rigid       | 1.25 | 18.8              | 105            | 89.5           | 7.5            |            |
|       | 1800 | 208-230/460 | 213TC  | U7E2DCR        | \$954   | DS-3AL          | No          | 1.15 | 18.6              | 110            | 89.5           | 20.6-18.8/9.4  | 03, LA     |
|       | 1800 | 208-230/460 | 213TC  | U7P2DCR        | \$1,147 | DS-3AL          | No          | 1.25 | 18.6              | 110            | 90.2           | 20.0-18.2/9.1  | 03         |
|       | 1800 | 208-230/460 | 213TC  | U7P2DC         | \$1,192 | DS-3AL          | Rigid       | 1.25 | 18.8              | 105            | 91.7           | 20-18.2/9.1    |            |
|       | 1800 | 575         | 213TC  | U7P2GCR        | \$1,147 | DS-3AL          | No          | 1.25 | 18.6              | 200            | 91.7           | 7.2            |            |
|       | 1200 | 208-230/460 | 254TC  | U7P3DC         | \$2,147 | DS-3AL          | Rigid       | 1.25 | 24.0              | 180            | 91.0           | 20.6-19.0/9.5  | 02, 03     |
|       | 1200 | 208-230/460 | 254TC  | U7E3DCR        | \$1,718 | DS-3AL          | No          | 1.25 | 23.9              | 200            | 89.5           | 20.8-18.8/9.4  | 02, 03, LA |
|       | 1200 | 208-230/460 | 254TC  | U7P3DCR        | \$2,087 | DS-3AL          | No          | 1.25 | 23.9              | 180            | 91.0           | 20.6-19.0/9.5  | 02, 03     |
|       | 3600 | 208-230/460 | 215TC  | U10E1DCR       | \$1,209 | DS-3AL          | No          | 1.25 | 20.1              | 110            | 89.5           | 26.7-23.8/11.9 | 03, LA     |
|       | 3600 | 208-230/460 | 215TC  | U10P1DCR       | \$1,466 | DS-3AL          | No          | 1.25 | 20.1              | 120            | 91.0           | 26.4-23.5/11.8 |            |
|       | 3600 | 208-230/460 | 215TC  | U10P1DC        | \$1,511 | DS-3AL          | Rigid       | 1.25 | 20.3              | 125            | 91.7           | 26.4-23.5/11.8 |            |
| 10    | 3600 | 575         | 215TC  | U10P1GC        | \$1,511 | DS-3AL          | Rigid       | 1.25 | 20.3              | 125            | 91.7           | 9.4            |            |
|       | 1800 | 208-230/460 | 215TC  | U10E2DCR       | \$1,133 | DS-3AL          | No          | 1.25 | 20.1              | 120            | 89.5           | 27.2-24.6/12.3 | 03, LA     |
|       | 1800 | 208-230/460 | 215TC  | U10P2DCR       | \$1,371 | DS-3AL          | No          | 1.25 | 20.1              | 133            | 91.7           | 26.5-23.9/12.0 | 03         |
|       | 1800 | 208-230/460 | 215TC  | U10P2DC        | \$1,416 | DS-3AL          | Rigid       | 1.25 | 20.3              | 133            | 91.7           | 26.5-23.9/12.0 |            |
|       | 1800 | 575         | 215TC  | U10P2GCR       | \$1,371 | DS-3AL          | No          | 1.25 | 20.1              | 120            | 91.7           | 9.6            |            |
|       | 1800 | 575         | 215TC  | U10P2GC        | \$1,416 | DS-3AL          | Rigid       | 1.25 | 20.3              | 133            | 91.7           | 9.6            |            |
|       | 1200 | 208-230/460 | 256TC  | U10E3DCR       | \$2,046 | DS-3AL          | No          | 1.25 | 25.7              | 230            | 89.5           | 27.5-25/12.5   | 02, 03, LA |
|       | 1200 | 208-230/460 | 256TC  | U10P3DCR       | \$2,498 | DS-3AL          | No          | 1.25 | 25.7              | 230            | 91.7           | 27.1-24.6/12.3 |            |
|       | 1200 | 208-230/460 | 256TC  | U10P3DC        | \$2,558 | DS-3AL          | Rigid       | 1.25 | 25.8              | 250            | 91.7           | 27.1-24.6/12.3 |            |
|       | 3600 | 208-230/460 | 215TC  | U15E1DFCR      | \$1,450 | DS-3AL          | 1.25        | 20.1 | 120               | 90.2           | 40-35/17.7     | 02, 03, NNP    |            |
|       | 3600 | 208-230/460 | 254TC  | U15E1DCR       | \$1,739 | DS-3AL          | 1.25        | 23.9 | 210               | 90.2           | 40-35/17.6     | 02, 03, NNP    |            |
|       | 1800 | 208-230/460 | 254TC  | U15E2DCR       | \$1,578 | DS-3AL          | 1.25        | 23.9 | 220               | 91.0           | 41-37/18.5     | 02, 03, NNP    |            |
|       | 1800 | 575         | 254TC  | U15E2GCR       | \$1,578 | DS-3AL          | 1.25        | 23.9 | 220               | 91.0           | 14.7           | 02, NNP        |            |
|       | 3600 | 208-230/460 | 256TC  | U20E1DCR       | \$2,120 | DS-3AL          | No          | 1.25 | 25.7              | 230            | 90.2           | 53-47/23.4     | 02, 03, LA |
|       | 3600 | 208-230/460 | 256TC  | U20P1DCR       | \$2,590 | DS-3AL          | No          | 1.25 | 25.6              | 230            | 91.0           | 53.0-46.0/23.1 | 02, 03     |
| 20    | 3600 | 208-230/460 | 256TC  | U20P1DC        | \$2,650 | DS-3AL          | Rigid       | 1.25 | 25.8              | 230            | 91.0           | 53.0-46.0/23.1 | 02, 03     |
|       | 3600 | 575         | 256TC  | U20P1GC        | \$2,650 | DS-3AL          | Rigid       | 1.25 | 25.8              | 230            | 91.0           | 18.5           | 02         |
|       | 1800 | 208-230/460 | 256TC  | U20E2DCR       | \$1,913 | DS-3AL          | No          | 1.25 | 25.7              | 250            | 91.0           | 54-49/24.3     | 02, 03, LA |
|       | 1800 | 208-230/460 | 256TC  | U20P2DCR       | \$2,331 | DS-3AL          | No          | 1.25 | 25.6              | 250            | 93.0           | 53.0-47.0/23.5 | 02, 03     |
|       | 1800 | 208-230/460 | 256TC  | U20P2DC        | \$2,391 | DS-3AL          | Rigid       | 1.25 | 25.8              | 250            | 93.0           | 53.0-47.0/23.5 |            |
|       | 3600 | 208-230/460 | 284TC  | U25P1DC        | \$3,268 | DS-3AL          | Rigid       | 1.15 | 28.3              | 250            | 91.7           | 65-57/28.4     |            |
|       | 3600 | 208-230/460 | 284TC  | U25P1DCR       | \$3,208 | DS-3AL          | No          | 1.25 | 28.3              | 250            | 91.7           | 65.0-57.0/28.4 |            |
|       | 1800 | 208-230/460 | 284TC  | U25P2DCR       | \$2,830 | DS-3AL          | No          | 1.25 | 28.3              | 290            | 93.6           | 65.0-59.0/29.3 | 02, 03     |
|       | 1800 | 208-230/460 | 284TC  | U25E2DCR       | \$2,312 | DS-3AL          | No          | 1.25 | 28.3              | 290            | 92.4           | 65.0-59.0/29.3 | 02, 03, LA |
|       | 1800 | 208-230/460 | 284TC  | U25P2DC        | \$2,890 | DS-3AL          | Rigid       | 1.15 | 28.3              | 290            | 93.6           | 65.0-59.0/29.3 |            |
|       | 1800 | 208-230/460 | 286TC  | U30E2DCR       | \$2,666 | DS-3AL          | No          | 1.25 | 28.3              | 320            | 92.4           | 80-72/36       | 02, 03, LA |
|       | 1800 | 208-230/460 | 286TC  | U30P2DCR       | \$3,273 | DS-3AL          | No          | 1.25 | 28.3              | 320            | 93.6           | 78.0-70.0/35.0 | 02, 03     |
|       | 1800 | 208-230/460 | 286TC  | U30P2DC        | \$3,333 | DS-3AL          | Rigid       | 1.25 | 28.4              | 325            | 93.6           | 78.0-70.0/35.0 |            |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 &amp; 50 Hz data on Nameplate

Note LA Limited Availability

† All marks shown within this document are properties of their respective owners.



# Special Application Commercial Pump Three Phase Open Dripproof (ODP) C-Face



## APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

## FEATURES:

- "CE" Mark On Nameplate (140 Frame and Larger)
- Double Sealed Ball Bearings On All 56 Frame Commercial Duty Pump Motors;
- Double Shielded Ball Bearings On All Others
- Continuous Duty
- 60 Hertz & 60/50 Hertz
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- 40°C Ambient
- Suitable for Wye-Delta Start 250-Frame and Larger
- NEMA® "C" Flange Mounting
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- Premium 303 S.S. on 56J; Mount & Carbon Steel on All Others

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Dripcover Kit | Max Amps       | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|-------------|------|-------------------|----------------|---------------|----------------|-------|
| 3/4   | 3600 | 208-230/460 | 56C   | EE508          | \$444   | DS-3F           | No          | 1.50 | 11.3              | 20             | DC48          | 2.7-2.8/1.4    | 03    |
|       | 3600 | 208-230/460 | 56J   | EE446          | \$449   | DS-3F           | No          | 1.50 | 11.8              | 25             | DC48          | 2.6-2.4/1.1    | 03    |
|       | 3600 | 208-230/460 | 56J   | EE446B         | \$454   | DS-3F           | Rigid       | 1.00 | 11.8              | 19             | DC56          | 2.6-2.4/1.1    | 03    |
|       | 1800 | 208-230/460 | 56C   | D34S2ACR       | \$366   | DS-3F           | No          | 1.25 | 11.9              | 26             | DC56          | 2.8-2.7/1.4    | 26    |
|       | 1200 | 208-230/460 | 56C   | D34S3DCR       | \$704   | DS-3F           | No          | 1.15 | 12.2              | 32             | DC56          | 3.4-3.5/1.7    | 26    |
| 1     | 3600 | 208-230/460 | 56C   | EE511          | \$464   | DS-3F           | No          | 1.40 | 11.6              | 17             | DC48          | 3.6-3.8/1.9    | 03    |
|       | 3600 | 208-230/460 | 56J   | EE506B         | \$474   | DS-3F           | Rigid       | 1.40 | 11.6              | 22             | DC56          | 3.5-3.4/1.7    | 03    |
|       | 3600 | 208-230/460 | 56C   | EE511B         | \$469   | DS-3F           | Rigid       | 1.40 | 11.6              | 26             | DC56          | 3.6-3.8/1.9    |       |
|       | 3600 | 208-230/460 | 56J   | EE506          | \$469   | DS-3F           | No          | 1.40 | 12.1              | 20             | DC48          | 3.6-3.8/1.9    | 03    |
|       | 1800 | 208-230/460 | 56HC  | D1S2AHC        | \$353   | DS-3F           | Rigid       | 1.25 | 12.4              | 26             | DC56          | 3.2-3.0/1.5    | 26    |
| 1 1/2 | 3600 | 208-230/460 | 56C   | EE609          | \$537   | DS-3F           | No          | 1.00 | 11.4              | 28             | DC56          | 4.4-4.3/2.2    | 03    |
|       | 3600 | 208-230/460 | 56HC  | D32S1AHC       | \$541   | DS-3F           | Rigid       | 1.15 | 11.9              | 32             | DC56          | 4.7-4.4/2.2    | 26    |
|       | 3600 | 208-230/460 | 56J   | EE607          | \$541   | DS-3F           | No          | 1.30 | 12.4              | 17             | DC56          | 5.0-5.0/2.5    | 03    |
|       | 3600 | 208-230/460 | 56J   | EE607B         | \$546   | DS-3F           | Rigid       | 1.30 | 12.4              | 18             | DC56          | 5.0-5.0/2.5    |       |
|       | 1800 | 208-230/460 | 56C   | D32S2ACR       | \$482   | DS-3F           | No          | 1.25 | 12.4              | 26             | DC56          | 4.9-5.0/2.5    | 26    |
| 2     | 3600 | 208-230/460 | 56C   | EE612          | \$705   | DS-3F           | No          | 1.15 | 11.9              | 30             | DC56          | 5.5-5.1/2.5    |       |
|       | 3600 | 208-230/460 | 56HC  | D2S1AHC        | \$710   | DS-3F           | Rigid       | 1.15 | 11.9              | 32             | DC56          | 6.0-5.4/2.7    | 26    |
|       | 3600 | 208-230/460 | 56J   | EE733          | \$710   | DS-3F           | No          | 1.20 | 12.9              | 25             | DC56          | 6.1-5.6/2.8    |       |
|       | 3600 | 208-230/460 | 56J   | EE733B         | \$715   | DS-3F           | Rigid       | 1.20 | 12.9              | 26             | DC56          | 6.1-5.6/2.8    |       |
|       | 3600 | 575         | 56J   | EE733-5        | \$719   | DS-3F           | Remove      | 1.20 | 12.4              | 25             | DC56          | 2.2            |       |
|       | 1800 | 208-230/460 | 56C   | D2S2ACR        | \$541   | DS-3F           | No          | 1.15 | 13.0              | 35             | DC56          | 6.1-6.2/3.1    |       |
| 3     | 3600 | 208-230/460 | 56C   | EE736          | \$775   | DS-3F           | No          | 1.15 | 11.4              | 35             | DC56          | 7.9-7.6/7.6    |       |
|       | 3600 | 208-230/460 | 56J   | EE734          | \$780   | DS-3F           | No          | 1.15 | 13.9              | 17             | DC56          | 8.6-8.4/4.2    |       |
|       | 3600 | 208-230/460 | 56J   | EE734B         | \$785   | DS-3F           | Rigid       | 1.15 | 13.9              | 35             | DC56          | 8.6-8.4/4.2    |       |
|       | 3600 | 575         | 56J   | EE734-5        | \$790   | DS-3F           | Remove      | 1.15 | 13.4              | 25             | DC56          | 3              |       |
| 5     | 3600 | 208-230/460 | 182TC | D5P1DC         | \$975   | DS-3E           | Rigid       | 1.15 | 15.8              | 50             | 969957        | 13.5-12.3/6.2  | 03    |
|       | 1800 | 208-230/460 | 184TC | D5P2DC         | \$1,008 | DS-3E           | Rigid       | 1.15 | 15.8              | 60             | 969574        | 13.8-13/6.5    | 03    |
| 7 1/2 | 3600 | 208-230/460 | 184TC | D7P1DC         | \$1,467 | DS-3E           | Rigid       | 1.15 | 15.8              | 60             | 969574        | 20.3-18.1/9.1  | 03    |
|       | 1800 | 208-230/460 | 213TC | D7P2DC         | \$1,410 | DS-3E           | Rigid       | 1.15 | 16.8              | 100            | 969575        | 20.2-18.5/9.3  | 03    |
| 10    | 3600 | 208-230/460 | 213TC | D10P1DC        | \$1,649 | DS-3E           | Rigid       | 1.15 | 16.8              | 100            | 969575        | 27.1-24.3/12.2 | 03    |
|       | 1800 | 208-230/460 | 215TC | D10P2DC        | \$1,677 | DS-3E           | Rigid       | 1.15 | 18.3              | 110            | 969575        | 26.2-23.7/11.9 | 03    |
| 15    | 3600 | 208-230/460 | 215TC | D15P1DC        | \$2,287 | DS-3E           | Rigid       | 1.15 | 18.3              | 100            | 969575        | 40-36/18       | 03    |
|       | 1800 | 208-230/460 | 254TC | D15P2DC        | \$2,367 | DS-3E           | Rigid       | 1.15 | 23.0              | 150            | 93.0          | 40-36/18.2     | 02,03 |
| 20    | 3600 | 208-230/460 | 254TC | D20P1DC        | \$2,707 | DS-3E           | Rigid       | 1.15 | 23.0              | 150            | 472131        | 52-46/23.1     | 02,03 |
|       | 1800 | 208-230/460 | 256TC | D20P2DC        | \$2,921 | DS-3E           | Rigid       | 1.15 | 23.6              | 170            | 472131        | 54-49/24.4     | 02,03 |
| 25    | 3600 | 208-230/460 | 256TC | D25P1DC        | \$3,219 | DS-3E           | Rigid       | 1.15 | 23.6              | 160            | 472131        | 65-57/28.7     | 02,03 |
|       | 1800 | 208-230/460 | 284TC | D25P2DC        | \$3,638 | DS-3E           | Rigid       | 1.15 | 24.9              | 300            | 969578        | 64-58/29       | 02,03 |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz;

Full 60 & 50 Hz data on Nameplate

Note 26 Does not include WORLDMOTOR® features

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## Special Application Commercial Pump Three Phase Open Dripproof (ODP) C-Face

(continued)



| HP | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Dripcover Kit | Max Amps   | Notes |
|----|------|-------------|--------|----------------|---------|-----------------|-------------|------|-------------------|----------------|---------------|------------|-------|
| 30 | 3600 | 208-230/460 | 284TSC | D30P1DSC       | \$3,871 | DS-3E           | Rigid       | 1.15 | 23.5              | 300            | 92.4          | 79-68/34   |       |
|    | 1800 | 208-230/460 | 286TC  | D30P2DC        | \$3,935 | DS-3E           | Rigid       | 1.15 | 24.9              | 350            | 969578        | 77-69/34   |       |
| 40 | 3600 | 208-230/460 | 286TSC | D40P1DSC       | \$4,912 | DS-3E           | Rigid       | 1.15 | 23.5              | 250            | 969578        | 104-90/45  | 02,03 |
|    | 1800 | 208-230/460 | 324TC  | D40P2DC        | \$5,175 | DS-3E           | Rigid       | 1.15 | 27.3              | 385            | 969579        | 102-91/46  | 02,03 |
| 50 | 3600 | 208-230/460 | 324TSC | D50P1DSC       | \$5,466 | DS-3E           | Rigid       | 1.15 | 25.8              | 385            | 969579        | 130-117/59 | 02,03 |
|    | 1800 | 208-230/460 | 326TC  | D50P2DC        | \$5,684 | DS-3E           | Rigid       | 1.15 | 27.3              | 415            | 969579        | 126-113/56 | 02,03 |
| 60 | 3600 | 208-230/460 | 326TSC | D60P1DSC       | \$6,788 | DS-3E           | Rigid       | 1.15 | 25.8              | 460            | 969579        | 152-134/67 | 02,03 |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

† All marks shown within this document are properties of their respective owners.





# Special Application Carbonator Pump Single Phase Open Dripproof (ODP) Split Phase



## APPLICATIONS:

Designed end shield with extended hub and short slotted shaft for close coupling carbonator pump to motor.

## FEATURES:

- For Carbonator Duty Only
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Threaded Conduit Hub
- All Ball Bearing Construction
- Green Ground Lead
- Special Slotted Shaft

## Resilient Base

| HP  | RPM  | Voltage         | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps   | Notes |
|-----|------|-----------------|-------|----------------|-------|-----------------|------|-------------------|----------------|------------------|-------|
| 1/4 | 1800 | 100-120/200-240 | 48YZ  | 6001           | \$202 | DS-3FMP         | 1.00 | 7.7               | 15             | 4.5-4.7/2.2-2.4  | 61    |
|     | 1800 | 115             | 48YZ  | 1004           | \$145 | DS-3FMP         | 1.00 | 7.7               | 15             | 5.0              | 61    |
| 1/3 | 1800 | 100-120/200-240 | 48YZ  | 6079           | \$220 | DS-3FMP         | 1.00 | 8.3               | 16             | 6.4-6.3/3.0-3.1  | 61    |
|     | 1800 | 115             | 48YZ  | 1003           | \$174 | DS-3FMP         | 1.00 | 7.7               | 14             | 6.5              | 61    |
| 1/2 | 1800 | 115             | 48YZ  | 6080           | \$189 | DS-3FMP         | 1.00 | 8.7               | 16             | 8.4              | 24    |
|     | 1800 | 120/240         | 48YZ  | 6078           | \$265 | DS-3FMP         | 1.00 | 8.7               | 17             | 7.5/3.6          | 61    |
| 3/4 | 1800 | 115/230         | 48YZ  | 872            | \$310 | DS-3FMP         | 1.00 | 9.7               | 25             | 10.0/4.9/9.8/4.9 | 61    |

Note 24 Automatic Reset Thermal Protector Overload

Note 61 Sleeve Bearings

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# Split Phase Hot Water Circulating Pump Open Drip-Proof (ODP)



## APPLICATIONS:

Designed to meet manufacturer's requirements for use on hot water circulating pumps.

## FEATURES:

- Painted Red To Indicate Hot-Water Usage
- 40°C Ambient
- Reversible Rotation
- Resilient Hub Rings
- Special Balance For Quiet Operation
- Class B Insulation
- 1725 RPM
- Automatic Reset Thermal Overload Protector
- Sleeve Bearings Have All Angle Thrust System
- Units Match OEM Performance And Mechanical Features
- Sleeve Bearings Unless Noted

## Split Phase, NEMA Frame 48YZ

| HP   | Voltage | Catalog Number | List  | Discount Symbol | Amps | Bolt Circle | Rings OC | SF   | Rotation Shaft End | Ship Wt. | Notes | Industry Numbers           |
|------|---------|----------------|-------|-----------------|------|-------------|----------|------|--------------------|----------|-------|----------------------------|
| 1/12 | 115     | 3255           | \$186 | DS-3HAC         | 2.5  | 4.63        | 5.94     | 1.75 | CW                 | 10       |       | 111034, 805316-010         |
| 1/6  | 115     | 3256           | \$205 | DS-3HAC         | 3.8  | 4.63        | 6.94     | 1.75 | CW                 | 13       |       | 111061, 817025-005         |
| 1/6  | 115     | 3257           | \$208 | DS-3HAC         | 3.8  | 5.00        | 6.94     | 1.75 | CW                 | 14       |       | 111036, 111031, 817025-001 |
| 1/4  | 115     | 3259           | \$231 | DS-3HAC         | 4.6  | 5.00        | 6.94     | 1.25 | CW                 | 15       |       | 111040, 817025-007, 111050 |
| 1/3  | 115     | 3260           | \$319 | DS-3HAC         | 6.0  | 5.86        | 6.94     | 1.30 | CCW                | 15       |       | 169226, 816141-002, 169038 |

## Capacitor Start, NEMA Frame 56YZ

| HP  | Voltage     | Catalog Number | List  | Discount Symbol | Amps        | Bolt Circle | Rings OC | SF   | Rotation Shaft End | Ship Wt. | Notes | Industry Numbers           |
|-----|-------------|----------------|-------|-----------------|-------------|-------------|----------|------|--------------------|----------|-------|----------------------------|
| 1/2 | 115/208-230 | 3258           | \$342 | DS-3HAC         | 5.7/3.0-2.9 | 5.86        | 7.94     | 1.50 | Rev                | 27       | 2     | 111044, 169228, 811757-001 |
| 3/4 | 115/208-230 | 3261           | \$350 | DS-3HAC         | 8.2/4.7-4.2 | 5.86        | 8.44     | 1.50 | Rev                | 33       | 2     | 111047, 169230, 811757-002 |

## Three Phase, Ball Bearing, C-Face, NEMA Frame 56CZ

| HP    | Voltage     | Catalog Number | List  | Discount Symbol | Amps        | Bolt Circle | Rings OC | SF   | Rotation Shaft End | Ship Wt. | Notes | Industry Numbers           |
|-------|-------------|----------------|-------|-----------------|-------------|-------------|----------|------|--------------------|----------|-------|----------------------------|
| 1-1/2 | 208-230/460 | 3265           | \$350 | DS-3HAC         | 5.0-4.9/2.4 | 5.86        | -        | 1.35 | Rev                | 28       | 2, LA | 169092, 169237, 816678-069 |

Note 2 Coupler assembly required for proper Bell & Gossett replacement

Note LA Limited Availability

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# Special Application Commercial Pump Single Phase Totally Enclosed Fan Cooled (TEFC) C-Face



## APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

## FEATURES:

- Double Sealed Ball Bearings
- Class B Insulation, Continuous Duty, 40°C Ambient
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- F1 Assembly
- Reversible Rotation
- Capacitor Start, Induction Run

| HP    | RPM  | Voltage               | Frame | Catalog Number | List  | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps  | Notes |
|-------|------|-----------------------|-------|----------------|-------|-----------------|-------------|------|-------------------|----------------|-----------------|-------|
| 1/3   | 3600 | 115/208-230           | 56C   | EC01           | \$332 | DS-3FMP         | No          | 1.15 | 11.4              | 22             | 6.6/3.2-3.3     | 24,98 |
|       | 3600 | 115/208-230           | 56J   | EU01           | \$341 | DS-3FMP         | Remov.      | 1.15 | 11.9              | 23             | 6.6/3.2-3.3     | 24,98 |
|       | 3600 | 115/208-230 & 110/220 | 56C   | EC01B          | \$334 | DS-3FMP         | Rigid       | 1.15 | 11.35             | 23             | 6.6/3.2-3.3     | 24,98 |
|       | 1800 | 115/208-230           | 56C   | EC02B          | \$325 | DS-CPMP         | Rigid       | 1.15 | 10.60             | 25             | 7.0/3.3-3.5     | 24    |
|       | 1800 | 115/208-230           | 56C   | T13CA2JCR      | \$380 | DS-3FMP         | No          | 1.15 | 11.0              | 22             | 6.6/3.0-3.3     | 24    |
| 1/2   | 3600 | 115/208-230           | 56C   | EC03           | \$358 | DS-3FMP         | No          | 1.15 | 11.4              | 23             | 7.8/4.1-3.9     | 24,98 |
|       | 3600 | 115/208-230           | 56C   | EC03B          | \$363 | DS-3FMP         | Rigid       | 1.15 | 11.4              | 24             | 7.8/4.1-3.9     | 24,98 |
|       | 3600 | 115/208-230           | 56J   | EU03           | \$368 | DS-3FMP         | Remov.      | 1.15 | 11.9              | 27             | 7.8/4.1-3.9     | 24,98 |
|       | 1800 | 208-230/115           | 56C   | EC04           | \$339 | DS-CPMP         | No          | 1.15 | 10.85             | 25             | 8.4/4.1-4.2     | 24    |
|       | 1800 | 100-120/200-240       | 56C   | 6212           | \$565 | DS-3FMP         | Rigid       | 1.25 | 12.0              | 25             | 6.3-5.6/3.1-2.8 | 24    |
|       | 1800 | 100-120/200-240       | 56C   | T12C2ZCR       | \$592 | DS-3FMP         | No          | 1.25 | 12.0              | 25             | 6.3-5.6/3.1-2.8 | 25    |
| 3/4   | 1800 | 115/208-230           | 56C   | T12CA2JCR      | \$496 | DS-3FMP         | No          | 1.15 | 11.4              | 32             | 9.0/4.3-4.5     | 24    |
|       | 3600 | 115/208-230           | 56C   | T34C1JC        | \$417 | DS-3FMP         | Rigid       | 1.15 | 11.9              | 32             | 10.4/5.3-5.2    | 25    |
|       | 3600 | 115/208-230           | 56C   | EC06           | \$448 | DS-3FMP         | No          | 1.15 | 11.9              | 26             | 10.0/5.2-5.0    | 24,98 |
|       | 3600 | 115/208-230           | 56J   | EU05           | \$458 | DS-3FMP         | Remov.      | 1.15 | 12.4              | 42             | 10.0/5.2-5.0    | 24,98 |
|       | 1800 | 100-120/200-240       | 56C   | T34C2ZCR       | \$699 | DS-3FMP         | No          | 1.25 | 12.4              | 32             | 9.2-8.4/4.6-4.2 | 25    |
|       | 1800 | 115/208-230           | 56C   | T34CA2JCR      | \$582 | DS-3FMP         | No          | 1.15 | 11.9              | 32             | 11.4/5.7-5.7    | 24    |
| 1     | 1200 | 115/208-230           | 56C   | T34C3JCR       | \$932 | DS-3FMP         | No          | 1.15 | 13.4              | 32             | 10.6/5.4-5.3    | 18,25 |
|       | 3600 | 115/208-230           | 56C   | EC09           | \$506 | DS-CPMP         | No          | 1.15 | 12.10             | 28             | 12.8/6.6-6.4    | 24,98 |
|       | 3600 | 115/208-230           | 56C   | EC09B          | \$508 | DS-3FMP         | Rigid       | 1.15 | 12.1              | 29             | 12.8/6.6-6.4    | 24,98 |
|       | 3600 | 115/208-230           | 56J   | EU07           | \$511 | DS-3FMP         | Remov.      | 1.15 | 12.6              | 33             | 12.8/6.6-6.4    | 24,98 |
|       | 3600 | 115/208-230           | 56C   | T1CA1JCR       | \$524 | DS-3FMP         | No          | 1.15 | 12.4              | 32             | 13.6/6.9-6.8    | 24    |
|       | 1800 | 115/208-230           | 56C   | T1CA2JCR       | \$610 | DS-3FMP         | No          | 1.15 | 12.4              | 32             | 14.0/6.9-7.0    | 24    |
| 1 1/2 | 1800 | 115/208-230           | 56C   | EC10B          | \$623 | DS-3FMP         | Rigid       | 1.15 | 12.4              | 37             | 13.6/7.0-6.8    | 24    |
|       | 3600 | 115/208-230           | 56C   | EC11           | \$648 | DS-CPMP         | No          | 1.15 | 12.60             | 35             | 16.6/9.0-8.3    | 24,98 |
|       | 3600 | 115/208-230           | 56C   | EC11B          | \$650 | DS-3FMP         | Rigid       | 1.15 | 12.6              | 36             | 16.6/9.0-8.3    | 24,98 |
|       | 3600 | 115/208-230           | 56J   | EU09           | \$655 | DS-3FMP         | Remov.      | 1.15 | 13.1              | 39             | 16.6/9.0-8.3    | 24,98 |
|       | 3600 | 115/208-230           | 56C   | T32CA1JCR      | \$637 | DS-3FMP         | No          | 1.15 | 12.9              | 32             | 14.6/8.1-7.4    | 24    |
|       | 1800 | 115/208-230           | 56C   | T32CA2JCR      | \$689 | DS-3FMP         | No          | 1.15 | 13.9              | 31             | 14.4/8.0-7.2    | 24    |
| 2     | 1800 | 115/208-230           | 56C   | EC12           | \$727 | DS-CPMP         | No          | 1.15 | 12.35             | 37             | 14.0/7.7-7.0    | 18,24 |
|       | 1800 | 115/208-230           | 56C   | EC12B          | \$729 | DS-3FMP         | Rigid       | 1.15 | 12.4              | 38             | 14.0/7.7-7.0    | 24    |
|       | 3600 | 208-230&220           | 56C   | EC13           | \$778 | DS-3FMP         | No          | 1.15 | 12.9              | 37             | 9.6-9.0         | 24    |
|       | 3600 | 208-230&220           | 56C   | EC13B          | \$780 | DS-3FMP         | Rigid       | 1.15 | 12.9              | 38             | 9.6-9.0         | 24    |
|       | 3600 | 208-230&220           | 56J   | EU11           | \$825 | DS-3FMP         | Remov.      | 1.15 | 13.4              | 38             | 9.6-9.0         | 24    |
|       | 1800 | 115/208-230           | 145TC | T2C2J14C       | \$846 | DS-3FMP         | Rigid       | 1.15 | 13.9              | 46             | 18.9/10.3-9.4   | 18,25 |
| 3     | 1800 | 115/208-230           | 56C   | T2CA2JCR       | \$778 | DS-3FMP         | No          | 1.00 | 14.4              | 43             | 18.9/10.3-9.4   | 24    |
|       | 1800 | 115/208-230           | 56HC  | T2C2JHC        | \$846 | DS-3FMP         | Rigid       | 1.15 | 13.9              | 43             | 18.9/10.3-9.4   | 18,25 |
|       | 3600 | 208-230               | 56C   | EC16B          | \$890 | DS-CPMP         | Rigid       | 1.15 | 13.35             | 39             | 13.7-13.0       | 18,24 |
|       | 3600 | 208-230               | 56J   | EU12           | \$894 | DS-3FMP         | Remov.      | 1.15 | 13.9              | 39             | 13.7-13.0       | 24    |

Note 18 Incorporates Run Capacitor  
Note 24 Automatic Reset Thermal Protector Overload

Note 25 Non-protected  
Note 98 50/60 Hertz Motor

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# Special Application Commercial Pump Single Phase Open Dripproof (ODP) C-Face



## APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

## FEATURES:

- Double Sealed Ball Bearings - Locked Drive End Bearing
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A

| HP    | RPM  | Voltage     | Frame | Catalog Number | List  | Discount Symbol | Base (Feet) | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Dripcover Kit | Max Amps       | Notes    |
|-------|------|-------------|-------|----------------|-------|-----------------|-------------|------|-------------------|----------------|---------------|----------------|----------|
| 1/3   | 3600 | 115/208-230 | 56C   | EC0332B        | \$214 | DS-3FMP         | Rigid       | 1.75 | 10.8              | 17             | DC48          | 6.2/2.9-3.1    | 24,98    |
|       | 3600 | 115/208-230 | 56J   | EU0332         | \$214 | DS-3FMP         | No          | 1.75 | 11.3              | 18             | DC48          | 6.2/2.9-3.1    | 24,98    |
| 1/2   | 3600 | 115/208-230 | 56J   | EU0502B        | \$290 | DS-3FMP         | Remov.      | 1.60 | 11.6              | 18             | DC48          | 8.2/4.0-4.1    | 24,98    |
|       | 3600 | 115/208-230 | 56C   | EC0502         | \$280 | DS-3FMP         | No          | 1.60 | 11.2              | 22             | DC56          | 8.2/4.2-4.1    | 24,98    |
|       | 3600 | 115/208-230 | 56J   | EU0502         | \$285 | DS-3FMP         | No          | 1.60 | 11.7              | 17             | DC56          | 8.2/4.2-4.1    | 24,98    |
|       | 1800 | 115/208-230 | 56C   | EC0504         | \$453 | DS-3FMP         |             | 1.25 | 10.4              | 21             | DC48          | 8.9/4.4-4.5    | 24       |
|       | 1800 | 115/208-230 | 56C   | EC0504B        | \$456 | DS-3FMP         |             | 1.25 | 10.4              | 22             | DC56          | 8.9/4.4-4.5    | 24       |
| 3/4   | 3600 | 115/208-230 | 56J   | EU0752B        | \$359 | DS-3FMP         | Remov.      | 1.50 | 12.1              | 27             | DC48          | 11.0/5.4-5.5   | 24,98    |
|       | 3600 | 115/208-230 | 56C   | EC0752         | \$350 | DS-3FMP         | No          | 1.50 | 11.9              | 18             | DC56          | 10.4/5.4-5.2   | 24,98    |
|       | 3600 | 115/208-230 | 56J   | EU0752         | \$355 | DS-3FMP         | No          | 1.50 | 12.4              | 23             | DC48          | 10.4/5.4-5.2   | 24,98    |
|       | 1800 | 115/208-230 | 56C   | D34CA2JCR      | \$552 | DS-3FMP         |             | 1.25 | 11.0              | 32             | DC56          | 11.4/5.7-5.7   | 24       |
| 1     | 3600 | 115/208-230 | 56J   | EU1002B        | \$413 | DS-3FMP         | Remov.      | 1.40 | 12.4              | 29             | DC48          | 13.2/6.8-6.6   | 24,98    |
|       | 3600 | 115/208-230 | 56J   | EU1002         | \$409 | DS-3FMP         | No          | 1.40 | 12.7              | 23             | DC48          | 12.8/6.7-6.4   | 24,98    |
|       | 3600 | 115/208-230 | 56C   | EC1002         | \$404 | DS-3FMP         | No          | 1.40 | 12.2              | 20             | DC56          | 12.8/6.7-6.4   | 24,98    |
|       | 1800 | 115/208-230 | 56C   | EC1004B        | \$615 | DS-3FMP         |             | 1.15 | 11.6              | 31             | DC56          | 15/7.7-7.5     | 24       |
| 1 1/2 | 3600 | 115/208-230 | 56C   | EC1502         | \$490 | DS-3FMP         | No          | 1.30 | 12.4              | 33             | DC56          | 18.2/9.2-9.1   | 24,98    |
|       | 3600 | 115/208-230 | 56J   | EU1502         | \$494 | DS-3FMP         | No          | 1.30 | 12.9              | 33             | DC56          | 18.2/9.2-9.1   | 24,98    |
|       | 3600 | 115/208-230 | 56J   | EU1502B        | \$501 | DS-3FMP         | Remov.      | 1.30 | 12.9              | 35             | DC56          | 18.2/9.2-9.1   | 24,98    |
|       | 1800 | 115/208-230 | 56C   | D32CA2JCR      | \$594 | DS-3FMP         |             | 1.15 | 12.9              | 32             | DC56          | 19.2/10.0-9.6  | 24       |
| 2     | 3600 | 115/208-230 | 56J   | EU2002B        | \$626 | DS-3FMP         | Remov.      | 1.20 | 12.9              | 33             | DC56          | 19.6/10.7-9.8  | 18,24,98 |
|       | 3600 | 115/208-230 | 56C   | EC2002         | \$618 | DS-3FMP         | No          | 1.20 | 12.4              | 32             | DC56          | 19.6/10.7-9.8  | 18,24,98 |
|       | 3600 | 115/208-230 | 56C   | EC2002B        | \$620 | DS-3FMP         | Rigid       | 1.20 | 12.4              | 33             | DC56          | 19.6/10.7-9.8  | 18,24,98 |
|       | 3600 | 115/208-230 | 56J   | EU2002         | \$619 | DS-3FMP         | No          | 1.20 | 12.9              | 32             | DC56          | 19.6/10.7-9.8  | 18,24,98 |
|       | 1800 | 115/208-230 | 56C   | D2CA2JCR       | \$831 | DS-3FMP         |             | 1.15 | 13.4              | 32             | DC56          | 20.0/11.3-10.0 | 18,24    |
| 3     | 3600 | 208-230     | 56C   | EC3002         | \$700 | DS-3FMP         | No          | 1.15 | 12.9              | 37             | DC56          | 14.0-12.8      | 18,24    |
|       | 3600 | 208-230     | 56J   | EU3002         | \$705 | DS-3FMP         | No          | 1.15 | 13.4              | 37             | DC56          | 14.0-12.8      | 18,24    |
|       | 3600 | 208-230     | 56J   | EU3002B        | \$710 | DS-3FMP         | Remov.      | 1.15 | 13.4              | 38             | DC56          | 14.0-12.8      | 18,24    |

Note 18 Incorporates Run Capacitor  
 Note 24 Automatic Reset Thermal Protector Overload  
 Note 98 50/60 Hertz Motor

† All marks shown within this document are properties of their respective owners.



# Close Coupled Pump Motors

For specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft.



**Horsepower:** 1 – 60 HP

**Phase:** Single and Three Phase

**RPM:** 1800 and 3600 RPM

**Voltage:**

- 115/230
- 230
- 575
- 208-230/460
- 200
- 230/460 Volts

**Efficiency:**

Energy and Premium Efficient

**Enclosure:**

- Open Dripproof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)
- Hazardous Location

**Mounting:** Footed and Footless

**Shaft Types:**

- JM
- JP
- Westcoast



**Close Coupled Pump ODP Motor**



**Close Coupled Pump TEFC Motor**



**U.S. MOTORS® brand Close Coupled Pump Motors are designed to meet a variety of applications**

**Single Phase:**

- Open Dripproof (ODP)
  - JM Shaft Footed
  - JP Shaft Footed
- Totally Enclosed, Fan Cooled (TEFC)
  - JM Shaft Footed
  - JP Shaft Footed

**Three Phase:**

- Open Dripproof Premium Efficient
  - JM Shaft Footed & Footless
  - JP Shaft Footed & Footless
  - Westcoast Shaft Footed (Standard Efficient only)
- Open Dripproof
  - JM Shaft Footed
  - JP Shaft Footed
- Hazardous Location, Dual Label
  - JM Shaft Footed
- Totally Enclosed, Fan Cooled (TEFC)
  - JM Shaft Footed
  - JP Shaft Footed
  - West Coast Footed
- Totally Enclosed, Fan Cooled Premium Efficient
  - JM Shaft Footed
  - JP Shaft Footed
  - West Coast Footed

# Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

**NEMA**  
Premium


UTE4

## APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron End Brackets 280 & Up, 250 Frame and Lower Has Aluminum With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft End Bearing 180 Frame & Up
- Double Shielded Bearings
- Removable Base (180 - 250 Frame)
- Lifting Provisions 180 Frame & Up
- "JM" Shaft For Mechanical Seal
- "CE" Mark On Nameplate
- Conversion Kits: Canopy Kits

## JM Shaft For Mechanical Seal

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 3600 | 230/460     | 143JM | UJ1P1BM        | \$529   | DS-3PT          | 1.25 | 14.3              | 30             | 81.5           | 2.7/1.4        |       |
|       | 3600 | 575         | 143JM | UJ1P1GM        | \$529   | DS-3PT          | 1.25 | 14.3              | 30             | 81.5           | 1.1            |       |
|       | 1800 | 208-230/460 | 143JM | UJ1P2DM        | \$518   | DS-3PT          | 1.25 | 15.3              | 30             | 85.5           | 3.1-3/1.5      | 03    |
|       | 1800 | 575         | 143JM | UJ1P2GM        | \$518   | DS-3PT          | 1.25 | 14.3              | 30             | 85.5           | 1.1            |       |
| 1 1/2 | 3600 | 208-230/460 | 143JM | UJ32P1DM       | \$584   | DS-3PT          | 1.25 | 15.3              | 30             | 84.0           | 4.1-3.8/1.9    | 03    |
|       | 3600 | 230/460     | 143JM | UJ32P1BM       | \$584   | DS-3PT          | 1.25 | 14.3              | 30             | 84.0           | 3.9/1.9        |       |
|       | 3600 | 575         | 143JM | UJ32P1GM       | \$584   | DS-3PT          | 1.25 | 14.3              | 30             | 84.0           | 1.6            |       |
|       | 1800 | 208-230/460 | 145JM | UJ32P2DM       | \$565   | DS-3PT          | 1.25 | 15.3              | 35             | 86.5           | 4.5-4.3/2.1    | 03    |
|       | 1800 | 575         | 145JM | UJ32P2GM       | \$565   | DS-3PT          | 1.25 | 14.3              | 30             | 86.5           | 1.7            |       |
| 2     | 3600 | 208-230/460 | 145JM | UJ2P1DM        | \$622   | DS-3PT          | 1.25 | 15.3              | 35             | 86.5           | 5.4-4.9/2.5    | 03    |
|       | 3600 | 575         | 145JM | UJ2P1GM        | \$622   | DS-3PT          | 1.25 | 14.3              | 42             | 86.5           | 2              |       |
|       | 1800 | 208-230/460 | 145JM | UJ2P2DM        | \$611   | DS-3PT          | 1.25 | 15.3              | 35             | 86.5           | 5.9-5.7/2.8    | 03    |
|       | 1800 | 575         | 145JM | UJ2P2GM        | \$611   | DS-3PT          | 1.25 | 14.3              | 35             | 86.5           | 2.3            |       |
| 3     | 3600 | 208-230/460 | 145JM | UJ3P1DFM       | \$738   | DS-3PT          | 1.25 | 15.3              | 35             | 86.5           | 8.1-7.2/3.6    | 03,14 |
|       | 3600 | 208-230/460 | 182JM | UJ3P1DM        | \$886   | DS-3PT          | 1.25 | 17.8              | 60             | 87.5           | 8.4-7.8/3.9    | 03    |
|       | 3600 | 575         | 145JM | UJ3P1GFM       | \$738   | DS-3PT          | 1.25 | 15.3              | 35             | 86.5           | 2.9            | 14    |
|       | 3600 | 575         | 182JM | UJ3P1GM        | \$886   | DS-3PT          | 1.25 | 17.8              | 100            | 87.5           | 3.1            |       |
|       | 1800 | 208-230/460 | 182JM | UJ3P2DM        | \$795   | DS-3PT          | 1.25 | 17.8              | 60             | 89.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 575         | 182JM | UJ3P2GM        | \$795   | DS-3PT          | 1.25 | 17.8              | 60             | 89.5           | 3.1            |       |
| 5     | 3600 | 208-230/460 | 184JM | UJ5P1DM        | \$1,088 | DS-3PT          | 1.25 | 17.8              | 70             | 88.5           | 13.4-12.2/6.1  | 03    |
|       | 3600 | 575         | 184JM | UJ5P1GM        | \$1,088 | DS-3PT          | 1.25 | 17.8              | 100            | 88.5           | 4.9            |       |
|       | 1800 | 208-230/460 | 184JM | UJ5P2DM        | \$908   | DS-3PT          | 1.25 | 18.6              | 70             | 90.2           | 13.6-12.3/6.2  | 03    |
|       | 1800 | 575         | 184JM | UJ5P2GM        | \$908   | DS-3PT          | 1.25 | 17.8              | 70             | 89.5           | 5              |       |
| 7 1/2 | 3600 | 208-230/460 | 184JM | UJ7P1DFM       | \$1,213 | DS-3PT          | 1.25 | 17.8              | 70             | 90.2           | 19.9-19/9.5    | 03,14 |
|       | 3600 | 208-230/460 | 213JM | UJ7P1DM        | \$1,345 | DS-3PT          | 1.25 | 19.9              | 105            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 3600 | 575         | 184JM | UJ7P1GFM       | \$1,213 | DS-3PT          | 1.25 | 17.8              | 70             | 89.5           | 7.1            | 14    |
|       | 3600 | 575         | 213JM | UJ7P1GM        | \$1,345 | DS-3PT          | 1.25 | 19.8              | 240            | 91.0           | 7.1            |       |
|       | 1800 | 208-230/460 | 213JM | UJ7P2DM        | \$1,228 | DS-3PT          | 1.25 | 19.9              | 105            | 91.7           | 20-18.2/9.1    | 03    |
|       | 1800 | 575         | 213JM | UJ7P2GM        | \$1,228 | DS-3PT          | 1.25 | 19.8              | 105            | 91.7           | 7.2            |       |
| 10    | 3600 | 208-230/460 | 215JM | UJ10P1DM       | \$1,556 | DS-3PT          | 1.25 | 21.4              | 120            | 91.0           | 26.4-23.5/11.7 | 03    |
|       | 3600 | 575         | 215JM | UJ10P1GM       | \$1,556 | DS-3PT          | 1.25 | 21.4              | 166            | 91.0           | 9.4            |       |
|       | 1800 | 208-230/460 | 215JM | UJ10P2DM       | \$1,458 | DS-3PT          | 1.25 | 21.4              | 120            | 91.7           | 26.5-23.9/12   | 03    |
|       | 1800 | 575         | 215JM | UJ10P2GM       | \$1,458 | DS-3PT          | 1.25 | 21.4              | 120            | 91.7           | 9.6            |       |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

† All marks shown within this document are properties of their respective owners.



# Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

**NEMA**  
**Premium**



UTE4

(continued)

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 15 | 3600 | 208-230/460 | 215JM | UJ15P1DFM      | \$1,801 | DS-3PT          | 1.25 | 21.4              | 120            | 91.0           | 39-36/18       | 03,14 |
|    | 3600 | 208-230/460 | 254JM | UJ15P1DM       | \$2,239 | DS-3PT          | 1.25 | 25.4              | 180            | 91.0           | 39-35/17.7     | 03,14 |
|    | 3600 | 230/460     | 254JM | UJ15P1BM       | \$2,239 | DS-3PT          | 1.25 | 25.4              | 180            | 91.0           | 35/17.7        |       |
|    | 3600 | 575         | 215JM | UJ15P1GFM      | \$1,801 | DS-3PT          | 1.25 | 21.4              | 120            | 91.7           | 14.4           | 14    |
|    | 3600 | 575         | 254JM | UJ15P1GM       | \$2,239 | DS-3PT          | 1.25 | 25.4              | 180            | 91.0           | 14.1           |       |
|    | 1800 | 208-230/460 | 254JM | UJ15P2DM       | \$2,131 | DS-3PT          | 1.25 | 25.4              | 180            | 92.4           | 40-37/18.4     | 03    |
|    | 1800 | 575         | 254JM | UJ15P2GM       | \$2,131 | DS-3PT          | 1.25 | 25.4              | 180            | 92.4           | 14.6           |       |
| 20 | 3600 | 208-230/460 | 256JM | UJ20P1DM       | \$2,730 | DS-3PT          | 1.25 | 27.1              | 230            | 91.7           | 51-46/23       | 03,14 |
|    | 3600 | 575         | 256JM | UJ20P1GM       | \$2,730 | DS-3PT          | 1.25 | 27.1              | 230            | 91.0           | 18.5           |       |
|    | 1800 | 208-230/460 | 256JM | UJ20P2DM       | \$2,463 | DS-3PT          | 1.25 | 27.1              | 230            | 93.0           | 53-47/23.5     | 03    |
|    | 1800 | 575         | 256JM | UJ20P2GM       | \$2,463 | DS-3PT          | 1.25 | 27.1              | 230            | 93.0           | 19             |       |
| 25 | 3600 | 208-230/460 | 256JM | UJ25P1DFM      | \$3,235 | DS-3PT          | 1.15 | 27.1              | 230            | 91.7           | 64-57/28.3     | 03,14 |
|    | 3600 | 208-230/460 | 284JM | UJ25P1DM       | \$3,595 | DS-3PT          | 1.25 | 29.1              | 280            | 91.7           | 65-57/28.4     | 03,14 |
|    | 3600 | 575         | 256JM | UJ25P1GFM      | \$3,235 | DS-3PT          | 1.15 | 27.1              | 230            | 91.7           | 22.6           | 14    |
|    | 3600 | 575         | 284JM | HJ25P1GM       | \$3,595 | DS-3PT          | 1.15 | 27.9              | 380            | 91.7           | 23             |       |
|    | 1800 | 208-230/460 | 284JM | UJ25P2DM       | \$3,237 | DS-3PT          | 1.25 | 29.1              | 280            | 93.6           | 65-59/29.3     | 03    |
|    | 1800 | 575         | 284JM | HJ25P2GM       | \$3,237 | DS-3PT          | 1.15 | 27.9              | 380            | 93.6           | 23             |       |
| 30 | 3600 | 460         | 286JM | HJ30P1BM       | \$4,383 | DS-3PT          | 1.15 | 27.9              | 275            | 91.7           | 69/34          |       |
|    | 3600 | 575         | 286JM | HJ30P1GM       | \$4,383 | DS-3PT          | 1.15 | 27.9              | 410            | 91.7           | 27.6           |       |
|    | 1800 | 208-230/460 | 286JM | UJ30P2DM       | \$3,666 | DS-3PT          | 1.25 | 29.1              | 300            | 93.6           | 78-70/35       | 03    |
|    | 1800 | 575         | 286JM | HJ30P2GM       | \$3,666 | DS-3PT          | 1.15 | 27.9              | 410            | 93.6           | 27.6           |       |

## JP Shaft For Packing Seal

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 208-230/460 | 143JP | UJ1P2DP        | \$518   | DS-3PT          | 1.25 | 18.3              | 30             | 85.5           | 3.1-3/1.5      | 03    |
|       | 1800 | 575         | 143JP | UJ1P2GP        | \$518   | DS-3PT          | 1.25 | 17.3              | 30             | 85.5           | 1.1            |       |
| 1 1/2 | 1800 | 208-230/460 | 145JP | UJ32P2DP       | \$565   | DS-3PT          | 1.25 | 18.3              | 35             | 86.5           | 4.5-4.3/2.1    | 03    |
|       | 1800 | 575         | 145JP | UJ32P2GP       | \$565   | DS-3PT          | 1.25 | 17.3              | 30             | 86.5           | 1.7            |       |
| 2     | 3600 | 208-230/460 | 145JP | UJ2P1DP        | \$622   | DS-3PT          | 1.25 | 18.3              | 35             | 86.5           | 5.4-4.9/2.5    | 03    |
|       | 1800 | 208-230/460 | 145JP | UJ2P2DP        | \$611   | DS-3PT          | 1.25 | 18.3              | 35             | 86.5           | 5.9-5.7/2.8    | 03    |
|       | 1800 | 575         | 145JP | UJ2P2GP        | \$611   | DS-3PT          | 1.25 | 17.3              | 35             | 86.5           | 2.2            |       |
| 3     | 3600 | 208-230/460 | 145JP | UJ3P1DFP       | \$738   | DS-3PT          | 1.25 | 18.3              | 35             | 86.5           | 8.1-7.2/3.6    | 03,14 |
|       | 3600 | 208-230/460 | 182JP | UJ3P1DP        | \$886   | DS-3PT          | 1.25 | 20.9              | 60             | 87.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 208-230/460 | 182JP | UJ3P2DP        | \$795   | DS-3PT          | 1.25 | 20.9              | 60             | 89.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 575         | 182JP | UJ3P2GP        | \$795   | DS-3PT          | 1.25 | 20.9              | 60             | 89.5           | 3.1            |       |
| 5     | 3600 | 208-230/460 | 184JP | UJ5P1DP        | \$1,088 | DS-3PT          | 1.25 | 20.9              | 70             | 88.5           | 13.4-12.2/6.1  | 03    |
|       | 1800 | 208-230/460 | 184JP | UJ5P2DP        | \$908   | DS-3PT          | 1.25 | 21.6              | 70             | 90.2           | 13.6-12.3/6.2  | 03    |
|       | 1800 | 575         | 184JP | UJ5P2GP        | \$908   | DS-3PT          | 1.25 | 20.9              | 70             | 89.5           | 5              |       |
| 7 1/2 | 3600 | 208-230/460 | 184JP | UJ7P1DFP       | \$1,210 | DS-3PT          | 1.25 | 20.9              | 70             | 90.2           | 19.9-19/9.5    | 03,14 |
|       | 3600 | 208-230/460 | 213JP | UJ7P1DP        | \$1,345 | DS-3PT          | 1.25 | 23.8              | 105            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 1800 | 208-230/460 | 213JP | UJ7P2DP        | \$1,228 | DS-3PT          | 1.25 | 23.8              | 105            | 91.7           | 20-18.2/9.1    | 03    |
|       | 1800 | 575         | 213JP | UJ7P2GP        | \$1,228 | DS-3PT          | 1.25 | 23.8              | 105            | 91.7           | 7.2            |       |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

† All marks shown within this document are properties of their respective owners.



BRAKEMOTORS

GENERAL PURPOSE  
SINGLE PHASE

HVAC

WASHDOWN

AGRICULTURE

COMMERCIAL PUMP  
MOTORS

CLOSE COUPLED  
PUMP MOTORS

FIRE PUMP  
MOTORS

POOL & SPA  
MOTORS

RESIDENTIAL  
WATER PUMP

ELEVATOR  
GATE & DOOR

VARIABLE  
SPEED MOTORS  
AND DRIVES

# Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

**NEMA**  
Premium


UTE4

(continued)

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 10 | 3600 | 208-230/460 | 215JP | UJ10P1DP       | \$1,556 | DS-3PT          | 1.25 | 25.3              | 120            | 91.0           | 26.4-23.5/11.7 | 03    |
|    | 1800 | 208-230/460 | 215JP | UJ10P2DP       | \$1,458 | DS-3PT          | 1.25 | 25.3              | 120            | 91.7           | 26.5-23.9/12   | 03    |
|    | 1800 | 575         | 215JP | UJ10P2GP       | \$1,458 | DS-3PT          | 1.25 | 25.3              | 120            | 91.7           | 9.6            |       |
| 15 | 3600 | 208-230/460 | 215JP | UJ15P1DFP      | \$1,801 | DS-3PT          | 1.25 | 25.3              | 120            | 91.0           | 39-36/18       | 03,14 |
|    | 3600 | 208-230/460 | 254JP | UJ15P1DP       | \$2,239 | DS-3PT          | 1.25 | 28.3              | 180            | 91.0           | 39-35/17.7     | 03,14 |
|    | 1800 | 208-230/460 | 254JP | UJ15P2DP       | \$2,131 | DS-3PT          | 1.25 | 28.3              | 180            | 92.4           | 40-37/18.4     | 03    |
|    | 1800 | 575         | 254JP | UJ15P2GP       | \$2,131 | DS-3PT          | 1.25 | 28.3              | 180            | 92.4           | 14.6           |       |
| 20 | 3600 | 208-230/460 | 256JP | UJ20P1DP       | \$2,730 | DS-3PT          | 1.25 | 30.0              | 230            | 91.7           | 51-46/23       | 03,14 |
|    | 1800 | 208-230/460 | 256JP | UJ20P2DP       | \$2,463 | DS-3PT          | 1.25 | 30.0              | 230            | 93.0           | 53-47/23.5     | 03    |
|    | 1800 | 575         | 256JP | UJ20P2GP       | \$2,463 | DS-3PT          | 1.25 | 30.0              | 230            | 93.0           | 19             |       |
| 25 | 3600 | 208-230/460 | 256JP | UJ25P1DFP      | \$3,235 | DS-3PT          | 1.15 | 30.0              | 230            | 91.7           | 64-57/28.3     | 03,14 |
|    | 3600 | 208-230/460 | 284JP | UJ25P1DP       | \$3,595 | DS-3PT          | 1.25 | 32.0              | 280            | 91.7           | 65-57/28.4     | 03    |
|    | 1800 | 208-230/460 | 284JP | UJ25P2DP       | \$3,237 | DS-3PT          | 1.25 | 32.0              | 280            | 93.6           | 65-59/29.3     | 03    |
|    | 1800 | 575         | 284JP | HJ25P2GP       | \$3,237 | DS-3PT          | 1.15 | 30.8              | 380            | 93.6           | 23             |       |
| 30 | 1800 | 208-230/460 | 286JP | UJ30P2DP       | \$3,666 | DS-3PT          | 1.25 | 32.0              | 300            | 93.6           | 78-70/35       | 03    |
|    | 1800 | 575         | 286JP | HJ30P2GP       | \$3,666 | DS-3PT          | 1.15 | 30.8              | 410            | 93.6           | 27.6           |       |

## Westcoast Shaft - Footed

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes     |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-----------|
| 7 1/2 | 3600 | 208-230/460 | 213TCZ | UJ7P1DJ        | \$1,345 | DS-3PT          | 1.25 | 22.8              | 105            | 91.0           | 19.9-17.8/8.9  | 03,NNP,LA |
|       | 1800 | 208-230/460 | 213TCZ | UJ7P2DJ        | \$1,228 | DS-3PT          | 1.25 | 22.8              | 105            | 91.7           | 20-18.2/9.1    | 03,NNP,LA |
| 10    | 3600 | 208-230/460 | 215TCZ | UJ10P1DJ       | \$1,556 | DS-3PT          | 1.25 | 24.3              | 120            | 91.0           | 26.4-23.5/11.7 | 03,NNP,LA |
|       | 1800 | 208-230/460 | 215TCZ | UJ10P2DJ       | \$1,458 | DS-3PT          | 1.25 | 24.3              | 120            | 91.7           | 26.5-23.9/12   | 03,NNP,LA |
| 15    | 3600 | 208-230/460 | 215TCZ | UJ15P1DFJ      | \$1,801 | DS-3PT          | 1.25 | 24.3              | 120            | 91.0           | 39-36/18       | 03,NNP,LA |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Note LA Limited Availability

Note NNP Non NEMA Premium Efficiency

† All marks shown within this document are properties of their respective owners.





# Special Application Close Coupled Pump Three Phase Div. 1 Hazardous Duty, Dual Label



## APPLICATIONS:

For the specific requirements of centrifugal pumps located in hazardous locations as defined by Class and Group.

## FEATURES:

- UL<sup>®</sup> Listed & CSA<sup>®</sup> Certified
- Cast Iron Frame, End Brackets & Conduit Box
- Stainless Steel Nameplate & Zinc Plated Hardware
- Cast Iron Inner Bearing Caps
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance On 60 Hertz Sine Wave Power
- Class I Group D, Class II Group F&G, T3B
- Regreasable Bearings, Lifting Provisions
- Double Shielded Bearings
- 1.0 Service Factor at 60 Hertz
- Class F Insulation
- "JM" Shaft for Mechanical Seal
- Conversion Kits: Cast Iron Fan Cover

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 3     | 3600 | 230/460 | 182JM | XJ3P1BM        | \$1,255 | DS-3PT          | 1.00 | 18.4              | 90             | 86.5           | 7.8/3.9        |       |
|       | 1800 | 230/460 | 182JM | XJ3E2BM        | \$925   | DS-3PT          | 1.15 | 18.4              | 96             | 87.5           | 8.2/4.1        |       |
|       | 1800 | 230/460 | 182JM | XJ3P2BM        | \$1,122 | DS-3PT          | 1.00 | 18.4              | 90             | 89.5           | 7.7/3.8        |       |
| 5     | 3600 | 230/460 | 184JM | XJ5E1BM        | \$1,266 | DS-3PT          | 1.00 | 18.4              | 115            | 87.5           | 12.2/6.1       |       |
|       | 3600 | 230/460 | 184JM | XJ5P1BM        | \$1,546 | DS-3PT          | 1.00 | 18.4              | 110            | 88.5           | 12.2/6.1       |       |
|       | 1800 | 230/460 | 184JM | XJ5P2BM        | \$1,285 | DS-3PT          | 1.00 | 18.4              | 110            | 89.5           | 12.5/6.2       |       |
| 7 1/2 | 3600 | 230/460 | 213JM | XJ7E1BM        | \$1,566 | DS-3PT          | 1.00 | 21.0              | 145            | 88.5           | 18.4/9.2       |       |
|       | 3600 | 230/460 | 213JM | XJ7P1BM        | \$1,912 | DS-3PT          | 1.00 | 21.0              | 145            | 89.5           | 18.6/9.3       |       |
| 10    | 3600 | 230/460 | 215JM | XJ10P1BM       | \$2,215 | DS-3PT          | 1.15 | 21.0              | 170            | 90.2           | 23.6/11.8      |       |

† All marks shown within this document are properties of their respective owners.



# Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) NEMA<sup>®†</sup> Premium Efficient



DE1

**NEMA**  
Premium

## APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft.  
Used where dirt and moisture are minimal.

## FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame
- Aluminum End Shields 140-250, Cast Iron End Shields 280-320
- Oversized Ball Bearings w/Locked Shaft End Construction
- Premasked Mylar Nameplate (with "CE" Mark)
- F1 Assembly Position
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings
- 40°C Ambient, NEMA<sup>®†</sup> Design B Performance On 60 Hertz Sine Wave Power
- "JM" Shaft For Mechanical Seal
- "JM" Shaft on 210 Frame and Smaller; "JP" Shaft on 250 and 280 Frame
- Conversion Kits: Canopy Kits

## JM Shaft - Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 3/4   | 1200 | 208-230/460 | 143JM | DJ34P3DM       | \$655   | DS-3POP         | 1.15 | 15.4              | 30             | 80.0           | 2.8-2.8/1.4    | 03    |
| 1     | 1800 | 200         | 143JM | DJ1P2HM        | \$487   | DS-3POP         | 1.15 | 15.4              | 30             | 85.5           | 3.6            |       |
|       | 1800 | 208-230/460 | 143JM | DJ1P2DM        | \$487   | DS-3POP         | 1.15 | 15.4              | 30             | 85.5           | 3.1-3.1/1.5    | 03    |
|       | 1200 | 208-230/460 | 145JM | DJ1P3DM        | \$655   | DS-3POP         | 1.15 | 15.4              | 35             | 82.5           | 4-4/2          | 03    |
|       | 1800 | 200         | 145JM | DJ32P2HM       | \$513   | DS-3POP         | 1.15 | 14.8              | 35             | 86.5           | 4.8            |       |
| 1 1/2 | 3600 | 208-230/460 | 143JM | DJ32P1DM       | \$519   | DS-3POP         | 1.15 | 15.4              | 30             | 85.5           | 4.2-3.8/1.9    | 03    |
|       | 1800 | 200         | 145JM | DJ32P2HM       | \$513   | DS-3POP         | 1.15 | 14.8              | 35             | 86.5           | 4.8            | 03    |
|       | 1800 | 208-230/460 | 145JM | DJ32P2DM       | \$513   | DS-3POP         | 1.15 | 14.8              | 35             | 86.5           | 4.4-4.1/2.1    | 03    |
|       | 1200 | 208-230/460 | 182JM | DJ32P3DM       | \$660   | DS-3POP         | 1.15 | 16.0              | 50             | 86.5           | 5.2-5.3/2.6    | 03    |
|       | 3600 | 208-230/460 | 145JM | DJ2P1DM        | \$567   | DS-3POP         | 1.15 | 15.4              | 35             | 85.5           | 5.5-5/2.5      | 03    |
|       | 1800 | 200         | 145JM | DJ2P2HM        | \$563   | DS-3POP         | 1.15 | 15.4              | 35             | 86.5           | 6.3            |       |
| 2     | 1800 | 208-230/460 | 145JM | DJ2P2DM        | \$563   | DS-3POP         | 1.15 | 14.8              | 35             | 86.5           | 5.9-5.6/2.8    | 03    |
|       | 1800 | 575         | 145JM | DJ2P2GM        | \$563   | DS-3POP         | 1.15 | 15.34             | 35             | 86.5           | 2.2            |       |
|       | 1200 | 208-230/460 | 184JM | DJ2P3DM        | \$739   | DS-3POP         | 1.15 | 16.0              | 60             | 87.5           | 6.4-6.3/3.1    | 03    |
|       | 3600 | 208-230/460 | 145JM | DJ3P1DM        | \$582   | DS-3POP         | 1.15 | 15.4              | 35             | 85.5           | 8.3-7.4/3.7    | 03    |
|       | 1800 | 200         | 182JM | DJ3P2HM        | \$598   | DS-3POP         | 1.15 | 17.4              | 50             | 89.5           | 9              |       |
| 3     | 1800 | 208-230/460 | 182JM | DJ3P2DM        | \$598   | DS-3POP         | 1.15 | 16.0              | 50             | 89.5           | 8.3-7.7/3.8    | 03    |
|       | 1200 | 208-230/460 | 213JM | DJ3P3DM        | \$941   | DS-3POP         | 1.15 | 17.8              | 90             | 88.5           | 9.4-8.9/4.5    |       |
|       | 3600 | 200         | 182JM | DJ5P1HM        | \$620   | DS-3POP         | 1.15 | 17.4              | 50             | 88.5           | 14.1           |       |
|       | 3600 | 208-230/460 | 182JM | DJ5P1DM        | \$620   | DS-3POP         | 1.15 | 16.1              | 50             | 88.5           | 13.5-12.3/6.2  |       |
| 5     | 1800 | 200         | 184JM | DJ5P2HM        | \$645   | DS-3POP         | 1.15 | 20.5              | 60             | 89.5           | 14.7           |       |
|       | 1800 | 208-230/460 | 184JM | DJ5P2DM        | \$645   | DS-3POP         | 1.15 | 16.0              | 60             | 89.5           | 13.7-12.4/6.2  | 03    |
|       | 1800 | 575         | 184JM | DJ5P2GM        | \$645   | DS-3POP         | 1.15 | 16.0              | 60             | 89.5           | 4.9            |       |
|       | 1200 | 208-230/460 | 215JM | DJ5P3DM        | \$1,234 | DS-3POP         | 1.15 | 19.3              | 105            | 89.5           | 15.2-14.5/7.3  |       |
|       | 3600 | 208-230/460 | 184JM | DJ7P1DM        | \$968   | DS-3POP         | 1.15 | 17.4              | 60             | 88.5           | 20.5-18.1/9.1  | 03    |
|       | 1800 | 200         | 213JM | DJ7P2HM        | \$943   | DS-3POP         | 1.15 | 17.8              | 90             | 91.0           | 21.4           |       |
| 7 1/2 | 1800 | 208-230/460 | 213JM | DJ7P2DM        | \$943   | DS-3POP         | 1.15 | 17.8              | 90             | 91.0           | 20.2-18.5/9.3  | 03    |
|       | 1800 | 575         | 213JM | DJ7P2GM        | \$943   | DS-3POP         | 1.15 | 17.8              | 90             | 91.0           | 7.3            |       |

Note 03 660/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

† All marks shown within this document are properties of their respective owners.



# Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) NEMA® Premium Efficient



**NEMA**  
Premium

DE1

(continued)

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 10 | 3600 | 200         | 213JM | DJ10P1HM       | \$1,132 | DS-3POP         | 1.15 | 17.8              | 90             | 90.2           | 28             | 03    |
|    | 3600 | 208-230/460 | 213JM | DJ10P1DM       | \$1,132 | DS-3POP         | 1.15 | 17.8              | 90             | 90.2           | 27.1-24.3/12.2 | 03    |
|    | 3600 | 575         | 213JM | DJ10P1GM       | \$1,132 | DS-3POP         | 1.15 | 17.78             | 90             | 90.2           | 9.7            |       |
|    | 1800 | 200         | 215JM | DJ10P2HM       | \$1,147 | DS-3POP         | 1.15 | 19.3              | 105            | 91.7           | 28.1           | 03    |
|    | 1800 | 208-230/460 | 215JM | DJ10P2DM       | \$1,147 | DS-3POP         | 1.15 | 19.3              | 105            | 92.4           | 26.3-23.8/11.9 | 03    |
| 15 | 3600 | 208-230/460 | 215JM | DJ15P1DM       | \$1,555 | DS-3POP         | 1.15 | 19.3              | 105            | 90.2           | 40-36/18       | 03    |
|    | 1800 | 208-230/460 | 254JM | DJ15P2DM       | \$1,712 | DS-3POP         | 1.15 | 24.6              | 160            | 93.0           | 40-36/18.2     |       |
| 20 | 3600 | 208-230/460 | 254JM | DJ20P1DM       | \$1,874 | DS-3POP         | 1.15 | 24.6              | 170            | 91.7           | 52-46/23.1     |       |
|    | 3600 | 575         | 254JM | DJ20P1GM       | \$1,874 | DS-3POP         | 1.15 | 24.6              | 170            | 91.0           | 18.7           |       |
|    | 1800 | 208-230/460 | 256JM | DJ20P2DM       | \$1,970 | DS-3POP         | 1.15 | 25.2              | 195            | 93.0           | 54-49/24.4     |       |
| 25 | 3600 | 208-230/460 | 256JM | DJ25P1DM       | \$2,567 | DS-3POP         | 1.15 | 25.2              | 200            | 91.7           | 65-57/28.7     |       |
|    | 1800 | 208-230/460 | 284JM | DJ25P2DM       | \$2,435 | DS-3POP         | 1.15 | 25.8              | 225            | 93.6           | 64-58/29       | 03    |
| 30 | 3600 | 208-230/460 | 284JM | DJ30P1DM       | \$2,901 | DS-3POP         | 1.15 | 25.8              | 225            | 92.4           | 79-68/34       | 03    |
|    | 1800 | 208-230/460 | 286JM | DJ30P2DM       | \$2,892 | DS-3POP         | 1.15 | 25.8              | 250            | 94.1           | 77-69/34       | 03    |
| 40 | 3600 | 208-230/460 | 286JM | DJ40P1DM       | \$3,171 | DS-3POP         | 1.15 | 25.8              | 250            | 93.0           | 104-90/45      | 03    |
|    | 3600 | 575         | 286JM | DJ40P1GM       | \$3,171 | DS-3POP         | 1.15 | 25.8              | 250            | 93.0           | 36             |       |
|    | 1800 | 208-230/460 | 324JM | DJ40P2DM       | \$3,178 | DS-3POP         | 1.15 | 27.5              | 385            | 94.1           | 102-91/46      | 03    |
| 50 | 3600 | 208-230/460 | 324JM | DJ50P1DM       | \$3,567 | DS-3POP         | 1.15 | 27.5              | 385            | 93.0           | 130-117/59     | 03    |
|    | 1800 | 208-230/460 | 326JM | DJ50P2DM       | \$3,725 | DS-3POP         | 1.15 | 27.5              | 460            | 94.5           | 126-113/56     | 03    |
| 60 | 3600 | 208-230/460 | 326JM | DJ60P1DM       | \$4,916 | DS-3POP         | 1.15 | 27.5              | 460            | 93.6           | 152-134/67     | 03    |

## JM Shaft - Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes  |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 1     | 1800 | 208-230/460 | 143JM | DJ1P2DU        | \$570   | DS-3POV         | 1.15 | 15.6              | 30             | 85.5           | 3.2-3.1/1.6    | 03,NNP |
| 1 1/2 | 3600 | 208-230/460 | 143JM | DJ32P1DU       | \$609   | DS-3POV         | 1.15 | 15.6              | 30             | 85.5           | 4.2-3.8/1.9    | 03,NNP |
|       | 1800 | 208-230/460 | 145JM | DJ32P2DU       | \$581   | DS-3POV         | 1.15 | 15.6              | 35             | 86.5           | 4.4-4.2/2.1    | 03,NNP |
| 2     | 1800 | 208-230/460 | 145JM | DJ2P2DU        | \$642   | DS-3POV         | 1.15 | 15.6              | 35             | 86.5           | 5.9-5.6/2.8    | 03,NNP |
| 3     | 1800 | 208-230/460 | 182JM | DJ3P2DU        | \$758   | DS-3POV         | 1.15 | 17.1              | 50             | 89.5           | 8.3-7.7/3.8    | 03,NNP |
| 5     | 1800 | 208-230/460 | 184JM | DJ5P2DU        | \$898   | DS-3POV         | 1.15 | 17.1              | 60             | 89.5           | 13.7-12.4/6.2  | 03,NNP |
| 7 1/2 | 1800 | 208-230/460 | 213JM | DJ7P2DU        | \$1,188 | DS-3POV         | 1.15 | 18.6              | 90             | 91.0           | 20.2-18.5/9.3  | 03,NNP |
| 10    | 3600 | 208-230/460 | 213JM | DJ10P1DU       | \$1,420 | DS-3POV         | 1.15 | 18.6              | 90             | 90.2           | 27.1-24.3/12.2 | 03,NNP |
|       | 1800 | 208-230/460 | 215JM | DJ10P2DU       | \$1,400 | DS-3POV         | 1.15 | 18.8              | 105            | 91.7           | 26.2-23.7/11.9 | 03,NNP |
| 15    | 3600 | 208-230/460 | 215JM | DJ15P1DU       | \$1,809 | DS-3POV         | 1.15 | 18.8              | 105            | 90.2           | 40-36/18       | 03,NNP |
|       | 1800 | 208-230/460 | 254JM | DJ15P2DU       | \$2,055 | DS-3POV         | 1.15 | 25.5              | 160            | 93.0           | 40-36/18.2     | NNP    |
| 20    | 3600 | 208-230/460 | 254JM | DJ20P1DU       | \$2,249 | DS-3POV         | 1.15 | 25.5              | 160            | 91.7           | 52-46/23.1     | NNP    |

Note 03 660/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

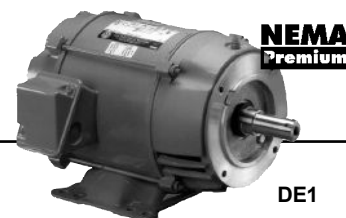
Note NNP Non-NEMA® Premium

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# Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) NEMA<sup>®†</sup> Premium Efficient

(continued)



DE1

## JP Shaft - Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 1     | 1800 | 208-230/460 | 143JP | DJ1P2DP        | \$487   | DS-3POP         | 1.15 | 18.4              | 30             | 85.5           | 3.2-3.1/1.6    | 03    |
| 1 1/2 | 1800 | 208-230/460 | 145JP | DJ3P2DP        | \$513   | DS-3POP         | 1.15 | 18.4              | 35             | 86.5           | 4.4-4.2/2.1    | 03    |
| 2     | 1800 | 208-230/460 | 145JP | DJ2P2DP        | \$563   | DS-3POP         | 1.15 | 18.4              | 35             | 86.5           | 5.9-5.6/2.8    | 03    |
| 3     | 1800 | 208-230/460 | 182JP | DJ3P2DP        | \$598   | DS-3POP         | 1.15 | 19.1              | 50             | 89.5           | 8.3-7.7/3.8    | 03    |
| 5     | 1800 | 208-230/460 | 184JP | DJ5P2DP        | \$645   | DS-3POP         | 1.15 | 19.1              | 60             | 89.5           | 13.7-12.4/6.2  | 03    |
| 7 1/2 | 1800 | 208-230/460 | 213JP | DJ7P2DP        | \$943   | DS-3POP         | 1.15 | 21.6              | 90             | 91.0           | 20.2-18.5/9.3  | 03    |
|       | 1200 | 208-230/460 | 254JP | DJ7P3DP        | \$1,565 | DS-3POP         | 1.15 | 27.4              | 150            | 91.0           | 20.5-18.9/9.5  | 03    |
| 10    | 3600 | 208-230/460 | 213JP | DJ10P1DP       | \$1,132 | DS-3POP         | 1.15 | 21.6              | 90             | 90.2           | 27.1-24.3/12.2 | 03    |
|       | 1800 | 208-230/460 | 215JP | DJ10P2DP       | \$1,147 | DS-3POP         | 1.15 | 23.1              | 105            | 91.7           | 26.2-23.7/11.9 | 03    |
|       | 1200 | 208-230/460 | 256JP | DJ10P3DP       | \$2,036 | DS-3POP         | 1.15 | 28.1              | 160            | 91.7           | 27.6-25.9/13   |       |
| 15    | 3600 | 200         | 215JP | DJ15P1HP       | \$1,555 | DS-3POP         | 1.15 | 23.1              | 105            | 90.2           | 41             |       |
|       | 3600 | 208-230/460 | 215JP | DJ15P1DP       | \$1,555 | DS-3POP         | 1.15 | 23.1              | 105            | 90.2           | 40-36/18       |       |
|       | 1800 | 200         | 254JP | DJ15P2HP       | \$1,569 | DS-3POP         | 1.15 | 27.4              | 150            | 93.0           | 42             |       |
|       | 1800 | 208-230/460 | 254JP | DJ15P2DP       | \$1,569 | DS-3POP         | 1.15 | 27.4              | 150            | 93.0           | 40-37/18.5     |       |
| 20    | 3600 | 200         | 254JP | DJ20P1HP       | \$1,882 | DS-3POP         | 1.15 | 27.4              | 150            | 91.0           | 54             |       |
|       | 3600 | 200         | 254JP | DJ20P1HP       | \$1,882 | DS-3POP         | 1.15 | 27.4              | 150            | 91.0           | 54             |       |
|       | 3600 | 208-230/460 | 254JP | DJ20P1DP       | \$1,882 | DS-3POP         | 1.15 | 27.4              | 150            | 91.7           | 52-47/23.4     |       |
|       | 1800 | 200         | 256JP | DJ20P2HP       | \$2,012 | DS-3POP         | 1.15 | 28.1              | 160            | 93.0           | 56             |       |
|       | 1800 | 208-230/460 | 256JP | DJ20P2DP       | \$2,012 | DS-3POP         | 1.15 | 28.1              | 160            | 93.0           | 53-48/24.2     |       |
| 25    | 3600 | 200         | 256JP | DJ25P1HP       | \$2,461 | DS-3POP         | 1.15 | 28.1              | 160            | 92.4           | 67             |       |
|       | 3600 | 200         | 256JP | DJ25P1HP       | \$2,461 | DS-3POP         | 1.15 | 28.1              | 160            | 92.4           | 67             |       |
|       | 3600 | 208-230/460 | 256JP | DJ25P1DP       | \$2,461 | DS-3POP         | 1.15 | 28.1              | 160            | 91.7           | 65-57/28.7     | 03    |
|       | 1800 | 200         | 284JP | DJ25P2HP       | \$2,435 | DS-3POP         | 1.15 | 28.6              | 225            | 93.6           | 67             |       |
|       | 1800 | 208-230/460 | 284JP | DJ25P2DP       | \$2,435 | DS-3POP         | 1.15 | 28.6              | 225            | 93.6           | 64-58/29.2     | 06    |
|       | 1800 | 575         | 284JP | DJ25P2GP       | \$2,435 | DS-3POP         | 1.15 | 28.6              | 225            | 93.6           | 23.1           |       |
| 30    | 3600 | 208-230/460 | 284JP | DJ30P1DP       | \$2,901 | DS-3POP         | 1.15 | 28.6              | 225            | 92.4           | 79-68/34       | 03    |
|       | 1800 | 208-230/460 | 286JP | DJ30P2DP       | \$2,892 | DS-3POP         | 1.15 | 28.6              | 250            | 94.1           | 77-69/34       | 03    |
| 40    | 3600 | 208-230/460 | 286JP | DJ40P1DP       | \$3,171 | DS-3POP         | 1.15 | 28.6              | 250            | 93.0           | 104-90/45      | 03    |
|       | 3600 | 575         | 286JP | DJ40P1GP       | \$3,171 | DS-3POP         | 1.15 | 28.6              | 250            | 93.0           | 36             |       |
|       | 1800 | 208-230/460 | 324JP | DJ40P2DP       | \$3,178 | DS-3POP         | 1.15 | 30.4              | 454            | 94.1           | 102-91/46      | 03    |
| 50    | 3600 | 208-230/460 | 324JP | DJ50P1DP       | \$3,567 | DS-3POP         | 1.15 | 30.4              | 454            | 93.0           | 130-117/59     | 03    |
|       | 1800 | 208-230/460 | 326JP | DJ50P2DP       | \$3,725 | DS-3POP         | 1.15 | 30.4              | 454            | 94.5           | 126-113/56     | 03    |
| 60    | 3600 | 208-230/460 | 326JP | DJ60P1DP       | \$4,915 | DS-3POP         | 1.15 | 30.4              | 460            | 93.6           | 152-134/67     | 03    |

Note 03 660/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

06

Dual voltage ratings, Part Winding Start on low voltage only

† All marks shown within this document are properties of their respective owners.



# Special Application Close Coupled Pump Three Phase Open Dripproof (ODP) NEMA<sup>®†</sup> Premium Efficient

(continued)



## Westcoast Shaft - Footed

| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | NEMA Nom. Eff. | Full Load Amps | Notes  |
|-------|------|-------------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|--------|
| 7 1/2 | 1800 | 208-230/460 | 213TCZ | DJ7P2DJ        | \$943   | DS-3POP         | 1.15 | 20.8              | 90             | 91.0           | 20.2-18.5/9.3  | 03,NNP |
| 10    | 3600 | 208-230/460 | 213TCZ | DJ10P1DJ       | \$1,132 | DS-3POP         | 1.15 | 20.8              | 90             | 90.2           | 27.1-24.3/12.2 | 03,NNP |
|       | 1800 | 208-230/460 | 215TCZ | DJ10P2DJ       | \$1,147 | DS-3POP         | 1.15 | 22.3              | 105            | 91.7           | 26.2-23.7/11.9 | 03,NNP |
| 15    | 3600 | 208-230/460 | 215TCZ | DJ15P1DJ       | \$1,555 | DS-3POP         | 1.15 | 22.3              | 105            | 90.2           | 40-36/18       | 03,NNP |

Note 03 660/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note NNP Non-NEMA<sup>®†</sup> Premium

† All marks shown within this document are properties of their respective owners.



## Special Application Close Coupled Pump Single Phase, Totally Enclosed Fan Cooled (TEFC)



### APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft.  
Used where dirt and moisture are minimal.

### FEATURES:

- Class F Insulation
- Extruded Aluminum Frame
- Oversized Ball Bearings w/Locked Shaft End Construction
- Reversible Rotation
- F1 Assembly Position
- Aluminum End Shields with Steel Bearing Inserts
- Shaft Slinger On Pulley End For IP54 Protection
- Lifting Provisions
- "JM" Shaft For Mechanical Seal, "JP" Shaft for Packing Seal

### JM Shaft - Footed

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 3     | 3600 | 115/230 | 184JM | UJ3C1P18M      | \$1,042 | DS-3PT          | 1.15 | 20.3              | 82             | 32.0/16.0      | 18    |
|       | 1800 | 115/230 | 184JM | UJ3C2P18M      | \$872   | DS-3PT          | 1.15 | 20.3              | 80             | 30.0/15.0      | 18    |
| 5     | 3600 | 230     | 184JM | UJ5C1K18M      | \$1,259 | DS-3PT          | 1.15 | 20.3              | 80             | 19.6           | 18    |
|       | 1800 | 230     | 215JM | UJ5C2K21M      | \$1,181 | DS-3PT          | 1.15 | 22.3              | 90             | 23.0           | 18    |
| 7 1/2 | 3600 | 230     | 215JM | UJ7C1K21M      | \$1,487 | DS-3PT          | 1.15 | 22.3              | 133            | 30.3           | 18    |
|       | 1800 | 230     | 215JM | UJ7C2K21M      | \$1,282 | DS-3PT          | 1.15 | 22.3              | 210            | 33.5           | 18    |
| 10    | 3600 | 230     | 215JM | UJ10C1K21M     | \$1,813 | DS-3PT          | 1.15 | 22.3              | 210            | 40.0           | 18    |
|       | 1800 | 230     | 215JM | UJ10C2K21M     | \$1,694 | DS-3PT          | 1.15 | 22.3              | 210            | 43.0           | 18    |

### JP Shaft - Footed

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 3     | 1800 | 115/230 | 184JP | UJ3C2P18P      | \$872   | DS-3PT          | 1.15 | 23.3              | 80             | 30.0/15.0      | 18    |
| 5     | 3600 | 230     | 184JP | UJ5C1K18P      | \$1,259 | DS-3PT          | 1.15 | 23.3              | 80             | 19.6           | 18    |
|       | 1800 | 230     | 215JP | UJ5C2K21P      | \$1,181 | DS-3PT          | 1.15 | 26.2              | 90             | 23.0           | 18    |
| 7 1/2 | 3600 | 230     | 215JP | UJ7C1K21P      | \$1,487 | DS-3PT          | 1.15 | 26.2              | 180            | 30.3           | 18    |
|       | 1800 | 230     | 215JP | UJ7C2K21P      | \$1,282 | DS-3PT          | 1.15 | 26.2              | 120            | 33.5           | 18    |
| 10    | 3600 | 230     | 215JP | UJ10C1K21P     | \$1,813 | DS-3PT          | 1.15 | 26.2              | 145            | 40.0           | 18    |
|       | 1800 | 230     | 215JP | UJ10C2K21P     | \$1,694 | DS-3PT          | 1.15 | 26.2              | 140            | 43.0           | 18    |

Note 18 Incorporates Run Capacitor

† All marks shown within this document are properties of their respective owners.



# Special Application Close Coupled Pump Single Phase Open Dripproof (ODP)



## APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft.  
Used where dirt and moisture are minimal.

## FEATURES:

- Class F Insulation
- Rolled Steel Frame
- Oversized Ball Bearings w/Locked Shaft End Construction
- Reversible
- F1 Assembly Position
- Shaft Slinger On Pulley End
- Lifting Provisions 180 Frame & Up
- "JM" Shaft For Mechanical Seal, "JP" Shaft for Packing Seal

## JM Shaft - Footed

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 1     | 1800 | 115/208-230 | 143JM | EJM104B        | \$498   | DS-3PO          | 1.15 | 13.8              | 33             | 14.2/7.2-7.1   | 25    |
| 1 1/2 | 1800 | 115/208-230 | 145JM | EJM154B        | \$589   | DS-3PO          | 1.15 | 13.8              | 34             | 16.0/8.3-8.0   | 18,25 |
| 2     | 3600 | 115/208-230 | 145JM | EJM202B        | \$656   | DS-3PO          | 1.15 | 14.6              | 35             | 19.6/10.7-9.8  | 18,25 |
|       | 1800 | 115/230     | 182JM | DJ2C2P18M      | \$711   | DS-3PO          | 1.15 | 17.5              | 70             | 23.2/11.6      | 18    |
| 3     | 3600 | 115/230     | 182JM | DJ3C1P18M      | \$786   | DS-3PO          | 1.15 | 19.6              | 81             | 16.0/32.0      | 18    |
|       | 3600 | 208-230     | 182JM | EJM302B        | \$647   | DS-3PO          | 1.15 | 15.3              | 40             | 14.0-13.2      | 18,25 |
|       | 1800 | 115/230     | 184JM | DJ3C2P18M      | \$716   | DS-3PO          | 1.15 | 17.5              | 66             | 38.0/19.0      | 18    |
| 5     | 3600 | 208-230     | 184JM | EJM502B        | \$747   | DS-3PO          | 1.15 | 16.3              | 45             | 24.0-23.7      | 18,25 |
|       | 3600 | 230         | 184JM | DJ5C1K18M      | \$945   | DS-3PO          | 1.15 | 19.6              | 82             | 19.6           | 18    |
|       | 1800 | 230         | 184JM | DJ5C2K18M      | \$904   | DS-3PO          | 1.15 | 19.6              | 86             | 22.0           | 18    |
|       | 1800 | 230         | 213JM | DJ5C2K21M      | \$1,087 | DS-3PO          | 1.15 | 20.5              | 105            | 22.0           | 25    |
| 7 1/2 | 3600 | 230         | 184JM | DJ7C1K18M      | \$1,135 | DS-3PO          | 1.15 | 19.6              | 83             | 31.4           | 18,25 |
|       | 3600 | 230         | 213JM | DJ7C1K21M      | \$1,364 | DS-3PO          | 1.15 | 20.5              | 141            | 30.4           | 25    |
|       | 1800 | 230         | 215JM | DJ7C2K21M      | \$1,161 | DS-3PO          | 1.15 | 22.0              | 110            | 35.6           | 25    |
| 10    | 3600 | 230         | 215JM | DJ10C1K21M     | \$1,601 | DS-3PO          | 1.15 | 22.0              | 173            | 40.0           | 25    |
|       | 1800 | 230         | 215JM | DJ10C2K21M     | \$1,476 | DS-3PO          | 1.15 | 22.0              | 115            | 42.2           | 25    |

## JP Shaft - Footed

| HP    | RPM  | Voltage | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 3     | 1800 | 115/230 | 184JP | DJ3C2P18P      | \$716   | DS-3PO          | 1.15 | 20.6              | 66             | 38.0/19.0      |       |
| 5     | 3600 | 230     | 184JP | DJ5C1K18P      | \$945   | DS-3PO          | 1.15 | 22.7              | 82             | 19.6           | 18    |
|       | 1800 | 230     | 184JP | DJ5C2K18P      | \$904   | DS-3PO          | 1.15 | 22.7              | 86             | 22.0           | 18    |
| 7 1/2 | 3600 | 230     | 213JP | DJ7C1K21P      | \$1,364 | DS-3PO          | 1.15 | 24.5              | 141            | 30.4           | 25    |
|       | 1800 | 230     | 215JP | DJ7C2K21P      | \$1,161 | DS-3PO          | 1.15 | 26.0              | 110            | 35.6           | 25    |
| 10    | 3600 | 230     | 215JP | DJ10C1K21P     | \$1,601 | DS-3PO          | 1.15 | 26.0              | 173            | 40.0           | 25    |
|       | 1800 | 230     | 215JP | DJ10C2K21P     | \$1,476 | DS-3PO          | 1.15 | 26.0              | 115            | 42.2           | 25    |

Note 18 Incorporates Run Capacitor  
Note 25 Non-protected

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**WE BUILD MORE THAN MOTORS.**

**WE BUILD  
RELIABILITY.**



## Variable Frequency Hybrid Drive

- Off-the-shelf digital AC drive
- No programming or commissioning required
- Easy to install
- IP20, NEMA 1/IP20 & 50, and NEMA 4X/IP65
- In stock, from basic enclosures to an analog interface





# Fire Pump Motors

For fire pump applications per NFPA<sup>®†</sup> 20 where contaminants are minimal.



**Horsepower:** 7.5 – 250 HP

**Phase:** Three Phase

**RPM:** 1800 and 3600 RPM

**Voltage:**

- 575
- 208-230/460
- 200/400
- 230/460 Volts

**Efficiency:** Energy Efficient

**Enclosure:**

- Open Dripproof (ODP)

**Mounting:**

- Footed and Footless
- Vertical and Horizontal

**Vertical Shaft Type:**

JP Close Coupled Pump Mounting



## NFPA<sup>®†</sup>: National Fire Protection Association

A worldwide leader in providing fire, electrical, and life safety to the public since 1896. The mission of the international nonprofit NFPA<sup>®†</sup> is to reduce the worldwide burden of fire and other hazards on the quality of life by providing and advocating scientifically-based consensus codes and standards, research, training and education. NFPA<sup>®†</sup> membership totals more than 75,000 individuals from around the world and more than 80 national trade and professional organizations.

For more information, go to [www.nfpa.org](http://www.nfpa.org).

U.S. MOTORS<sup>®</sup> brand fire pump products are fully compliant with federal motor efficiency requirements as described in the Energy Independence and Security Act of 2007 also known as EISA. All fire pump motors provide necessary identifying nameplate data.



**Three Phase, ODP Motor**

† All marks shown within this document are properties of their respective owners.

# Special Application Three Phase, Open Dripproof (ODP) UL<sup>®</sup> Listed for Fire Pump Applications



R, D,  
FD, FR

## APPLICATIONS:

For fire pump applications per NFPA<sup>®</sup> 20 where contaminants are minimal.

## FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 250-320, Cast Iron Frame 360-440
- Aluminum End Shields 250, Cast Iron End Shields 280-440
- Premasked Mylar Nameplate 250-320, Stainless Steel 360-440 Frame
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Larger
- Double Shielded Bearings 250-400, Open On 440 Frame
- Lifting Provisions 210 Frame & Larger
- Suitable For Wye-Delta Start 250 Frame & Larger
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 230/460 & 575 Volt Ratings Comply With NRCAN Standards
- 230/460V Ratings Dual Plated For 190/380V 50 Hertz, Next Lower Horsepower
- Oversized Connection Diagram, "CE" Mark On Nameplate

| HP | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|----|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 20 | 3600 | 200/400     | 254T  | FF20E1X        | \$1,724 | DS-3FFP         | 1.15 | 22.6              | 160            | 90.2           | 54/26.9        |       |
|    | 3600 | 208-230/460 | 254T  | FF20E1A        | \$1,724 | DS-3FFP         | 1.15 | 22.6              | 162            | 90.2           | 54-47/23.6     |       |
|    | 1800 | 200/400     | 256T  | FF20E2X        | \$1,934 | DS-3FFP         | 1.15 | 23.2              | 160            | 91.0           | 58/29.1        | 17    |
|    | 1800 | 208-230/460 | 256T  | FF20E2A        | \$1,934 | DS-3FFP         | 1.15 | 23.2              | 372            | 91.0           | 54-50/24.9     |       |
| 25 | 3600 | 200/400     | 256T  | FF25E1X        | \$2,252 | DS-3FFP         | 1.15 | 23.2              | 160            | 91.0           | 67/33          |       |
|    | 3600 | 208-230/460 | 256T  | FF25E1A        | \$2,252 | DS-3FFP         | 1.15 | 23.2              | 172            | 91.0           | 66-58/29       |       |
|    | 1800 | 200/400     | 284TS | FF25E2XS       | \$2,341 | DS-3FFP         | 1.15 | 23.5              | 300            | 91.7           | 70/35          |       |
|    | 1800 | 208-230/460 | 284TS | FF25E2AS       | \$2,341 | DS-3FFP         | 1.15 | 23.5              | 300            | 92.4           | 66-60/30       |       |
|    | 1800 | 575         | 284TS | FF25E2GS       | \$2,341 | DS-3FFP         | 1.15 | 23.5              | 312            | 91.7           | 24.4           | 38    |
| 30 | 3600 | 200/400     | 284TS | FF30E1XS       | \$2,654 | DS-3FFP         | 1.15 | 23.5              | 300            | 92.4           | 78/39          |       |
|    | 3600 | 208-230/460 | 284TS | FF30E1AS       | \$2,654 | DS-3FFP         | 1.15 | 23.5              | 312            | 91.0           | 80-70/35       |       |
|    | 1800 | 200/400     | 286TS | FF30E2XS       | \$2,780 | DS-3FFP         | 1.15 | 23.5              | 350            | 93.6           | 79/40          |       |
|    | 1800 | 208-230/460 | 286TS | FF30E2AS       | \$2,780 | DS-3FFP         | 1.15 | 23.5              | 337            | 92.4           | 78-71/35       |       |
| 40 | 3600 | 200/400     | 286TS | FF40E1XS       | \$2,902 | DS-3FFP         | 1.15 | 23.5              | 350            | 91.7           | 106/53         |       |
|    | 3600 | 230/460     | 286TS | FF40E1ES       | \$2,902 | DS-3FFP         | 1.15 | 23.5              | 325            | 93.0           | 90/45          |       |
|    | 3600 | 575         | 286TS | FF40E1GS       | \$2,902 | DS-3FFP         | 1.15 | 23.5              | 325            | 93.0           | 36             | 38    |
|    | 1800 | 200/400     | 324TS | FF40E2XS       | \$3,225 | DS-3FFP         | 1.15 | 25.8              | 385            | 93.6           | 105/53         | 02    |
|    | 1800 | 208-230/460 | 324TS | FF40E2AS       | \$3,225 | DS-3FFP         | 1.15 | 25.8              | 416            | 93.6           | 102-91/46      |       |
|    | 1800 | 575         | 324TS | FF40E2GS       | \$3,225 | DS-3FFP         | 1.15 | 25.8              | 416            | 93.0           | 37             | 38    |
| 50 | 3600 | 200/400     | 324TS | FF50E1XS       | \$3,448 | DS-3FFP         | 1.15 | 25.8              | 385            | 92.4           | 134/67         | 02    |
|    | 3600 | 208-230/460 | 324TS | FF50E1AS       | \$3,448 | DS-3FFP         | 1.15 | 25.8              | 416            | 92.4           | 129-116/58     |       |
|    | 3600 | 575         | 324TS | FF50E1GS       | \$3,448 | DS-3FFP         | 1.15 | 25.8              | 416            | 92.4           | 46             | 38    |
|    | 1800 | 200/400     | 326TS | FF50E2XS       | \$3,779 | DS-3FFP         | 1.15 | 25.8              | 415            | 93.6           | 131/65         | 02    |
|    | 1800 | 208-230/460 | 326TS | FF50E2AS       | \$3,779 | DS-3FFP         | 1.15 | 25.8              | 446            | 93.6           | 128-114/57     |       |
| 60 | 1800 | 575         | 326TS | FF50E2GS       | \$3,779 | DS-3FFP         | 1.15 | 25.8              | 446            | 93.0           | 46             | 38    |
|    | 3600 | 200/400     | 326TS | FF60E1XS       | \$4,752 | DS-3FFP         | 1.15 | 25.8              | 415            | 93.0           | 156/78         | 02    |
|    | 3600 | 230/460     | 326TS | FF60E1BS       | \$4,752 | DS-3FFP         | 1.15 | 25.8              | 447            | 93.0           | 155-136/68     |       |
|    | 3600 | 575         | 326TS | FF60E1GS       | \$4,752 | DS-3FFP         | 1.15 | 25.8              | 446            | 93.0           | 54             | 38    |
|    | 1800 | 200/400     | 364TS | FF60E2XS       | \$5,197 | DS-3FFP         | 1.15 | 26.6              | 580            | 94.1           | 159/80         |       |
|    | 1800 | 230/460     | 364TS | FF60E2BS       | \$5,197 | DS-3FFP         | 1.15 | 26.6              | 611            | 93.6           | 150/75         |       |
| 75 | 1800 | 575         | 364TS | FF60E2GS       | \$5,197 | DS-3FFP         | 1.15 | 26.6              | 580            | 94.1           | 55             | 38    |
|    | 3600 | 200/400     | 364TS | FF75E1XS       | \$6,255 | DS-3FFP         | 1.15 | 26.6              | 580            | 93.0           | 200/100        |       |
|    | 3600 | 230/460     | 364TS | FF75E1ES       | \$6,255 | DS-3FFP         | 1.15 | 26.6              | 611            | 94.1           | 171/85         |       |
|    | 3600 | 575         | 364TS | FF75E1GS       | \$6,255 | DS-3FFP         | 1.15 | 26.6              | 580            | 94.1           | 68             | 38    |
|    | 1800 | 200/400     | 365TS | FF75E2XS       | \$6,154 | DS-3FFP         | 1.15 | 27.6              | 600            | 94.1           | 199/99         |       |
|    | 1800 | 230/460     | 365TS | FF75E2BS       | \$6,154 | DS-3FFP         | 1.15 | 27.6              | 631            | 94.1           | 172/86         |       |
|    | 1800 | 575         | 365TS | FF75E2GS       | \$6,154 | DS-3FFP         | 1.15 | 27.6              | 600            | 95.0           | 70             | 38    |

Note 02 Suitable for Wye-Delta start on voltages shown

Note 17 Twelve leads for across-the-line or wye-delta start on either voltage, part winding start on lower voltage

Note 38 Q-6 Leads for across-the-line or wye-delta start

† All marks shown within this document are properties of their respective owners.



# Special Application Three Phase, Open Dripproof (ODP) UL<sup>®†</sup> Listed for Fire Pump Applications

(continued)



| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 100 | 3600 | 200/400 | 365TS | FF100E1XS      | \$7,255  | DS-3FFP         | 1.15 | 27.6              | 600            | 93.0           | 260/130        |       |
|     | 3600 | 230/460 | 365TS | FF100E1BS      | \$7,255  | DS-3FFP         | 1.15 | 27.6              | 631            | 93.6           | 225/112        |       |
|     | 3600 | 575     | 365TS | FF100E1GS      | \$7,255  | DS-3FFP         | 1.15 | 27.6              | 631            | 94.1           | 89             | 38    |
|     | 1800 | 200/400 | 404TS | FF100E2XS      | \$7,333  | DS-3FFP         | 1.15 | 29.6              | 750            | 94.5           | 261/130        |       |
|     | 1800 | 230/460 | 404TS | FF100E2BS      | \$7,333  | DS-3FFP         | 1.15 | 29.6              | 885            | 94.5           | 226/113        |       |
|     | 1800 | 575     | 404TS | FF100E2GS      | \$7,333  | DS-3FFP         | 1.15 | 29.6              | 750            | 95.0           | 90             | 38    |
| 125 | 3600 | 460     | 404TS | FF125E1CS      | \$9,717  | DS-3FFP         | 1.15 | 29.6              | 815            | 94.1           | 137            | 47    |
|     | 3600 | 575     | 404TS | FF125E1GS      | \$9,717  | DS-3FFP         | 1.15 | 29.6              | 750            | 94.1           | 110            | 38    |
|     | 1800 | 460     | 405TS | FF125E2CS      | \$9,758  | DS-3FFP         | 1.15 | 31.1              | 813            | 95.0           | 140            | 47    |
|     | 1800 | 575     | 405TS | FF125E2GS      | \$9,758  | DS-3FFP         | 1.15 | 31.1              | 813            | 95.0           | 112            | 38    |
| 150 | 3600 | 460     | 405TS | FF150E1CS      | \$11,990 | DS-3FFP         | 1.15 | 31.1              | 763            | 93.6           | 165            | 47    |
|     | 3600 | 575     | 405TS | FF150E1GS      | \$11,990 | DS-3FFP         | 1.15 | 31.1              | 813            | 93.6           | 132            | 38    |
|     | 1800 | 460     | 444TS | FF150E2CS      | \$12,757 | DS-3FFP         | 1.15 | 36.06             | 1130           | 95             | 171            | 47    |
|     | 1800 | 575     | 444TS | FF150E2GS      | \$12,757 | DS-3FFP         | 1.15 | 36.06             | 1130           | 95             | 136            | 38    |
| 200 | 3600 | 460     | 444TS | FF200E1CS      | \$15,532 | DS-3FFP         | 1.15 | 36.06             | 1050           | 94.5           | 225            | 47    |
|     | 3600 | 575     | 444TS | FF200E1GS      | \$15,532 | DS-3FFP         | 1.15 | 36.06             | 1050           | 94.5           | 180            | 38    |
|     | 1800 | 460     | 445TS | FF200E2CS      | \$15,945 | DS-3FFP         | 1.15 | 36.06             | 1190           | 95             | 230            | 47    |
|     | 1800 | 460     | 445TS | FF200E2CS      | \$15,945 | DS-3FFP         | 1.15 | 36.06             | 1190           | 95             | 189            | 47    |
| 250 | 3600 | 460     | 445TS | FF250E1FS      | \$20,473 | DS-3FFP         | 1.15 | 36.06             | 1140           | 94.5           | 276            | 38    |
|     | 1800 | 460     | 445TS | FF250E2FS      | \$18,025 | DS-3FFP         | 1.15 | 36.06             | 1330           | 95.4           | 281            | 47    |
|     | 1800 | 575     | 445TS | FF250E2GS      | \$18,025 | DS-3FFP         | 1.15 | 36.06             | 1330           | 95.4           | 225            | 38    |
| 300 | 3600 | 460     | 445TS | FF300E1FS      | \$28,306 | DS-3FFP         | 1.15 | 36.06             | 1250           | 95             | 326            | 47    |

Note 38 Q-6 Leads for across-the-line or wye-delta start  
Note 47 Q-12 leads for across-the-line, wye-delta or part winding start

† All marks shown within this document are properties of their respective owners.



# Special Application Three Phase, Open Dripproof (ODP) Vertical Close Coupled Pump UL<sup>®†</sup> Listed for Fire Pump Applications

## APPLICATIONS:

For fire pump applications per NFPA<sup>®†</sup> 20 where contaminants are minimal.

## FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 180-320, Cast Iron Frame On 360
- Aluminum End Shields 180-250, Cast Iron End Shields 280-360
- Premasked Mylar Nameplate 180-320, Stainless Steel On 360
- 40°C Ambient, NEMA<sup>®†</sup> Design B Performance On 60 Hertz Sine Wave Power
- Regreaseable Bearings 180 Frame & Larger
- Double Shielded Bearings
- Lifting Provisions 210 Frame & Larger
- Suitable For Wye-Delta Start 250 Frame & Larger
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 575 Volt Ratings Comply With NRCAN Standards
- Oversized Connection Diagram, "CE" Mark On Nameplate



DF1, FDF1,  
RF1, FRF1

## JP Shaft - Footless

| HP    | RPM  | Voltage     | Frame | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|---------|-----------------|------|-------------------|----------------|----------------|----------------|-------|
| 7 1/2 | 3600 | 200/400     | 184JP | FF7E1XV        | \$1,027 | DS-3FFP         | 1.15 | 21.7              | 75             | 88.5           | 20.7/10.3      |       |
|       | 3600 | 208-230/460 | 184JP | FF7E1DV        | \$1,027 | DS-3FFP         | 1.15 | 21.7              | 75             | 87.5           | 20.4-18.1/9.1  |       |
| 10    | 3600 | 200/400     | 213JP | FF10E1XV       | \$1,432 | DS-3FFP         | 1.15 | 22.8              | 110            | 88.5           | 29.2/14.6      |       |
|       | 3600 | 200/400     | 213JP | FF10S1XV       | \$1,283 | DS-3FFP         | 1.15 | 22.5              | 110            | 88.5           | 29.7/14.8      | LA    |
|       | 3600 | 208-230/460 | 213JP | FF10E1DV       | \$1,432 | DS-3FFP         | 1.15 | 22.8              | 110            | 88.5           | 27.5-25.3/12.6 |       |
| 15    | 3600 | 200/400     | 215JP | FF15E1XV       | \$1,682 | DS-3FFP         | 1.15 | 22.8              | 140            | 89.5           | 41/20.7        |       |
|       | 3600 | 200/400     | 215JP | FF15S1XV       | \$1,507 | DS-3FFP         | 1.15 | 24.0              | 110            | 90.2           | 41/20.6        | LA    |
|       | 3600 | 208-230/460 | 215JP | FF15E1DV       | \$1,682 | DS-3FFP         | 1.15 | 22.8              | 140            | 89.5           | 41-36/18.1     |       |
|       | 3600 | 575         | 215JP | FF15E1GV       | \$1,642 | DS-3FFP         | 1.15 | 24.0              | 140            | 89.5           | 14.5           |       |
| 20    | 3600 | 200/400     | 254JP | FF20E1XV       | \$2,155 | DS-3FFP         | 1.15 | 27.6              | 160            | 90.2           | 54/27.1        |       |
|       | 3600 | 208-230/460 | 254JP | FF20E1DV       | \$2,155 | DS-3FFP         | 1.15 | 27.6              | 240            | 90.2           | 54-47/23.6     |       |
|       | 3600 | 575         | 254JP | FF20E1GV       | \$2,155 | DS-3FFP         | 1.15 | 28.3              | 160            | 90.2           | 18.9           |       |
| 25    | 3600 | 200/400     | 256JP | FF25E1XV       | \$2,815 | DS-3FFP         | 1.15 | 28.3              | 250            | 91.0           | 67/33          |       |
|       | 3600 | 208-230/460 | 256JP | FF25E1DV       | \$2,815 | DS-3FFP         | 1.15 | 28.3              | 248            | 91.0           | 67-58/28.9     |       |
|       | 3600 | 575         | 256JP | FF25E1GV       | \$2,815 | DS-3FFP         | 1.15 | 28.3              | 195            | 91.0           | 23.2           |       |
| 30    | 3600 | 200/400     | 284JP | FF30E1XV       | \$3,318 | DS-3FFP         | 1.15 | 29.0              | 300            | 92.4           | 78/39          |       |
|       | 3600 | 208-230/460 | 284JP | FF30E1DV       | \$3,318 | DS-3FFP         | 1.15 | 29.0              | 300            | 92.4           | 79-68/34       |       |
|       | 3600 | 575         | 284JP | FF30E1GV       | \$3,318 | DS-3FFP         | 1.15 | 29.0              | 230            | 91.0           | 27.9           |       |
| 40    | 3600 | 200/400     | 286JP | FF40E1XV       | \$3,628 | DS-3FFP         | 1.15 | 29.0              | 350            | 91.7           | 106/53         |       |
|       | 3600 | 208-230/460 | 286JP | FF40E1DV       | \$3,628 | DS-3FFP         | 1.15 | 29.0              | 350            | 93.0           | 104-90/45      |       |
|       | 3600 | 575         | 286JP | FF40E1GV       | \$3,628 | DS-3FFP         | 1.15 | 29.0              | 320            | 91.7           | 36             |       |
| 50    | 3600 | 200/400     | 324JP | FF50E1XV       | \$4,310 | DS-3FFP         | 1.15 | 38.8              | 385            | 92.4           | 134/67         | 02    |
|       | 3600 | 208-230/460 | 324JP | FF50E1DV       | \$4,310 | DS-3FFP         | 1.15 | 38.8              | 385            | 92.4           | 130-117/59     | 02    |
|       | 3600 | 575         | 324JP | FF50E1GV       | \$4,310 | DS-3FFP         | 1.15 | 38.8              | 400            | 92.4           | 46             |       |
| 60    | 3600 | 200/400     | 326JP | FF60E1XV       | \$5,940 | DS-3FFP         | 1.15 | 38.8              | 620            | 93.0           | 156/78         | 02    |
|       | 3600 | 208-230/460 | 326JP | FF60E1DV       | \$5,940 | DS-3FFP         | 1.15 | 38.8              | 460            | 93.6           | 152-134/67     |       |
|       | 3600 | 575         | 326JP | FF60E1GV       | \$5,940 | DS-3FFP         | 1.15 | 38.8              | 460            | 93.0           | 54             |       |
| 75    | 3600 | 200/400     | 364JP | FF75E1XV       | \$7,819 | DS-3FFP         | 1.15 | 30.5              | 580            | 93.0           | 196/98         |       |
|       | 3600 | 230/460     | 364JP | FF75E1EV       | \$7,819 | DS-3FFP         | 1.15 | 30.5              | 580            | 93.0           | 172/86         |       |
|       | 3600 | 575         | 364JP | FF75E1GV       | \$7,819 | DS-3FFP         | 1.15 | 30.5              | 582            | 92.4           | 69             |       |
| 100   | 3600 | 200/400     | 365JP | FF100E1XV      | \$9,069 | DS-3FFP         | 1.15 | 30.5              | 600            | 93.0           | 258/129        |       |
|       | 3600 | 230/460     | 365JP | FF100E1EV      | \$9,069 | DS-3FFP         | 1.15 | 30.5              | 600            | 93.0           | 227/113        |       |
|       | 3600 | 575         | 365JP | FF100E1GV      | \$9,069 | DS-3FFP         | 1.15 | 30.5              | 604            | 93.0           | 90             |       |

Note 02 Suitable for Wye-Delta start on voltages shown

Note LA Limited Warranty

† All marks shown within this document are properties of their respective owners.



# Pool & Spa Motors

For use in commercial and residential pools and spas



**Frame Size:** NEMA<sup>†</sup> 48 and 56

**Horsepower:** 1/2 through 5 HP

**Phase:** Single and Three Phase

**RPM:** 60 Cycle - 3450 & 3450/1725  
50 Cycle - 2850 & 2850/1425

**Speeds:** Single and Two Speed (Hard & Soft Start)

**Voltage:** 230/115, 230 Standard Efficiency, 208-230/115, 208-230 Premium Efficiency

**Efficiency:** Standard and Premium Efficient

**Enclosure:** Open Dripproof (ODP)

**Mounting:**

- Square Flange
- C Flange Threaded
- C Flange Keyed
- Thru-Bolt

**Agency:** UL<sup>®†</sup> Recognized and CSA<sup>®†</sup> Certified

**Bearings:** Open Dripproof (ODP)

- 56 Frame - Sealed Ball
- 48 Frame - Sealed Ball

**Warranty:** All Pool and Spa motors have a limited 12 month warranty from the date of install or 24 months from date of manufacturing, whichever comes first.



## Pool & Spa Motors

Energy efficiency is top of mind for everyone these days and we've answered the call by introducing a programmable pool motor into our line...the EcoTech EZ<sup>®</sup> Variable Speed motor with an integrated timer. It is easy to install and easy to program. And, with a one-year payback and continued savings throughout the life of the motor, this new product will top your best seller list.

Other new additions to our line are the Pentair<sup>®</sup> EQ Pump Series replacement pool motor and the C-Face and Square-Flange Totally Enclosed Fan Cooled pool motors.

ecotech **EZ**

affinity<sup>™</sup>

INNOVATION MADE **EZ**<sup>™</sup>

<sup>†</sup> All marks shown within this document are properties of their respective owners.

# Pool & Spa OEM Pump/Motor Replacement Guide

## Square Flange and C-Flange Motors

### Square Flange and C-Flange Motors

Motors and pumps need to be properly matched to one another to provide consistent, predictable performance. When selecting your NIDECE replacement motor you will need to know six important pieces of information:

- 1) Pump Mounting (ie. Square Flange, C-Flange, etc.)
- 2) Horsepower
- 3) Service Factor
- 4) Voltage
- 5) Frequency
- 6) Phase

**Most of this information can be attained from the motor nameplate. Always be sure that the total of horsepower times service factor of your new NIDECE motor is equal to or greater than the total of horsepower times service factor of the original motor.**

$$\text{Total Output HP} = (\text{horsepower}) \times (\text{service factor}) \\ = \text{THP or SFHP}$$

| PUMP OEM                | BRAND NAME                                             | CATEGORY |
|-------------------------|--------------------------------------------------------|----------|
| American                | American Eagle                                         | J        |
| American                | (Ultra-Flow/Power Pump)                                | S        |
| Aqua Flo                | Ultra flow                                             | C        |
| Aqua Flo                | Dominator                                              | S        |
| Astral                  | 2000 Series                                            | J        |
| Baker Hydro             | Hydron                                                 | J        |
| Hayward                 | Super Pump <sup>®†</sup>                               | J        |
| Hayward                 | Super Pump <sup>®†</sup> II                            | J        |
| Hayward                 | Max-Flo <sup>®†</sup>                                  | J        |
| Hayward                 | Max-Flo II <sup>®</sup>                                | S        |
| Hayward                 | Northstar                                              | N        |
| Hayward                 | Tristar <sup>®†</sup>                                  | T        |
| ITT Marlow              | Argonaut                                               | J        |
| Jacuzzi Bros.           | Bronze                                                 | C        |
| Jacuzzi Bros.           | Cygn <sup>®†</sup>                                     | S        |
| Jacuzzi Bros.           | Plastic                                                | J        |
| Jacuzzi Bros.           | Magnum <sup>®†</sup> /Magnum Force <sup>®†</sup>       | J        |
| Letro                   | Legend <sup>®†</sup>                                   | P        |
| Pentair/American        | Ultra-Flow <sup>®†</sup>                               | S        |
| Pentair/Pac Fab         | Challenger <sup>®†</sup>                               | S        |
| Pentair/Pac Fab         | Hydro Pump <sup>®†</sup>                               | C        |
| Pentair/Purex           | Pinnacle <sup>®†</sup>                                 | S        |
| Pentair/Purex/Hydrotech |                                                        | J        |
| Polaris                 | Vac-Sweep <sup>®†</sup> PB4 Booste                     | P        |
| Premier/Springwater     | Pump                                                   | C        |
| Speck Pumps             |                                                        | J        |
| Sta-Rite                | Models 90, 98, 423,433, 21-80                          | S        |
| Sta-Rite                | Dura-Glas <sup>®†</sup> /Max-E-Glas <sup>®†</sup>      | S        |
| Waterway                | Dura-Glas <sup>®†</sup> II/Max-E-Glas <sup>®†</sup> II | S        |
| Wet Institute           | SVL56                                                  | C        |
| WMC                     |                                                        | J        |

### CATEGORY "N" HAYWARD NORTHSTAR C-FLANGE THREADED SHAFT

| HP  | SERVICE FACTOR | VOLTAGE     | ENERGY EFFICIENT<br>EXTREME E <sup>®</sup><br>6.5" Frame |
|-----|----------------|-------------|----------------------------------------------------------|
| 3/4 | 1.85           | 208-230/115 | ESN1072                                                  |
| 1   | 1.40           | 208-230/115 | EUSN1102                                                 |
| 1   | 1.85           | 208-230/115 | ESN1102                                                  |
| 1.5 | 1.25           | 208-230/115 | EUSN1152                                                 |
| 1.5 | 1.60           | 208-230/115 | ESN1152                                                  |
| 2   | 1.20           | 208-230/115 | EUSN1202                                                 |
| 2   | 1.35           | 208-230     | ESN1202                                                  |
| 3   | 1.20           | 208-230     | EUSN1302                                                 |
| 3   | 1.60           | 208-230     | ESN1302                                                  |

### CATEGORY "C" NEMA C-FLANGE KEYED SHAFT

| HP  | SERVICE FACTOR | VOLTAGE | STANDARD<br>EFFICIENCY<br>6.5" Frame | ENERGY EFFICIENT<br>EXTREME E <sup>®</sup><br>6.5" Frame |
|-----|----------------|---------|--------------------------------------|----------------------------------------------------------|
| 1/2 | 1.60           | 230/115 | ASB120                               | ASB656                                                   |
| 3/4 | 1.50           | 230/115 | ASB121                               | ASB634                                                   |
| 1   | 1.40           | 230/115 | ASB122                               | ASB653                                                   |
| 1.5 | 1.30           | 230/115 | ASB123                               | ASB795                                                   |
| 2   | 1.20           | 230     | ASB124                               | ASB808                                                   |
| 3   | 1.15           | 208-230 |                                      | ASB817                                                   |

### CATEGORY "T" HAYWARD TRISTAR REPLACEMENTS-SQUARE FLANGE

| HP  | SERVICE FACTOR | VOLTAGE     | STANDARD<br>EFFICIENCY<br>6.5" Frame | ENERGY EFFICIENT<br>extreme-E <sup>®</sup><br>6.5" Frame |
|-----|----------------|-------------|--------------------------------------|----------------------------------------------------------|
| 1/2 | 1.98           | 208-230/115 |                                      | ET3205                                                   |
| 3/4 | 1.85           | 208-230/115 |                                      | ET3207                                                   |
| 3/4 | 1.25           | 230/115     | ASB852                               |                                                          |
| 1   | 1.85           | 208-230/115 |                                      | ET3210                                                   |
| 1   | 1.25           | 230/115     | ASB853                               |                                                          |
| 1.5 | 1.60           | 208-230/115 |                                      | ET3215                                                   |
| 1.5 | 1.10           | 230/115     | ASB854                               |                                                          |
| 2   | 1.35           | 208-230     |                                      | ET3220                                                   |
| 2   | 1.10           | 230/115     | ASB859                               |                                                          |
| 2.5 | 1.04           | 230         | ASB840                               |                                                          |
| 3   | 1.15           | 208-230     | ASB844                               |                                                          |

### CATEGORY "J" NEMA C-FLANGE THREADED SHAFT

| HP  | SERVICE FACTOR | VOLTAGE | STANDARD<br>EFFICIENCY<br>6.5" Frame 5.5" Frame | ENERGY EFFICIENT<br>EXTREME E <sup>®</sup><br>6.5" Frame 5.5" Frame |
|-----|----------------|---------|-------------------------------------------------|---------------------------------------------------------------------|
| 1/2 | 1.60           | 230/115 | ASB126 EST1052                                  | ASB657 ECT1052                                                      |
| 3/4 | 1.00           | 230/115 | ASB227 EUST1072                                 |                                                                     |
|     | 1.50           | 230/115 | ASB127 EST1072                                  | ASB638 ECT1072                                                      |
| 1   | 1.00           | 230/115 | ASB228 EUST1102                                 |                                                                     |
|     | 1.40           | 230/115 | ASB128 EST1102                                  | ASB654 ECT1102                                                      |
| 1.5 | 1.00           | 230/115 | ASB229 EUST1152                                 |                                                                     |
|     | 1.30           | 230/115 | ASB129 EST1152                                  | ASB796                                                              |
| 2   | 1.00           | 230/115 | ASB230 EUST1202                                 |                                                                     |
|     | 1.20           | 230     | ASB130 EST1202                                  | ASB809                                                              |
| 2.5 | 1.00           | 230     | ASB231 EUST1252                                 |                                                                     |
| 3   | 1.15           | 208-230 |                                                 | ASB818                                                              |
| 5   | 1.00           | 208-230 |                                                 | ASB819                                                              |

### CATEGORY "S" SQUARE FLANGE

| HP  | SERVICE FACTOR | VOLTAGE | STANDARD<br>EFFICIENCY<br>6.5" Frame 5.5" Frame | ENERGY EFFICIENT<br>EXTREME E <sup>®</sup><br>6.5" Frame 5.5" Frame |
|-----|----------------|---------|-------------------------------------------------|---------------------------------------------------------------------|
| 1/2 | 1.30           | 230/115 | EUSQ1052                                        |                                                                     |
|     | 1.90           | 230/115 | ASB846 ESQ1052                                  | ASB845 EQC1052                                                      |
| 3/4 | 1.27           | 230/115 | ASB852 EUSQ1072                                 | EUQC1072                                                            |
|     | 1.65           | 230/115 | ASB847 ESQ1072                                  | ASB661 EQC1072                                                      |
| 1   | 1.25           | 230/115 | ASB853 EUSQ1102                                 | EUQC1102                                                            |
|     | 1.65           | 230/115 | ASB848 ESQ1102                                  | ASB841 EQC1102                                                      |
| 1.5 | 1.10           | 230/115 | ASB854 EUSQ1152                                 | EUQC1152                                                            |
|     | 1.50           | 230/115 | ASB858 ESQ1152                                  | ASB842                                                              |
| 2   | 1.10           | 230/115 | ASB859 EUSQ1202                                 |                                                                     |
|     | 1.30           | 230     | ASB748 ESQ1202                                  | ASB843                                                              |
| 2.5 | 1.04           | 230     | ASB840 EUSQ1252                                 |                                                                     |
| 3   | 1.15           | 208-230 | ASB844                                          | ASB844                                                              |
| 5   | 1.00           | 208-230 |                                                 | ASB850                                                              |

### CATEGORY "P" POOL CLEANERS

| HP  | SERVICE FACTOR | VOLTAGE | BRAND   | NIDECE 56"<br>6.5" Frame |
|-----|----------------|---------|---------|--------------------------|
| 3/4 | 1.50           | 230/115 | Polaris | ASB625                   |
|     | 1.50           | 230/115 | Letro   | ASB668                   |

† All marks shown within this document are properties of their respective owners.



# EcoTech® EZ Variable Speed Motor/Control

## Switchless Design, 6.5" Frame Diameter, Category "S" & "J"



### FEATURES:

- Shaft Threads - (Square Flange)  
1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class B Insulated
- Totally Enclosed, Fan Cooled
- Sealed Ball Bearings
- 90% Motor Efficiency
- 303 Stainless Steel Shaft
- Brushless Permanent Magnet Motor
- Variable RPM, 1035-3450
- California Title 20 Compliant
- Multiple Sizes to Fit Pump Ratings
- Fully Integrated Motor Control
- Program for Various Flows (Speeds)
- Two Settings - Mon-Fri and Sat/Sun
- Four Custom Flow Settings
- Freeze Sensor
- Vacuum Override
- **Discount Symbol: DS-FPS**

### extreme-E Square Flange, Premium Energy Efficient, Full Service Factor, Full Rated, Category "S"

| HP    | SF   | RPM      | Voltage | Freq | SF Amps | Catalog Number | List    | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) |
|-------|------|----------|---------|------|---------|----------------|---------|-------------|-------------------|-----------------|
| 1 1/2 | 1.60 | Variable | 230     | 60   | 10.0    | *EVSS15-NS     | \$1,200 | 56Y         | 13.25             | 42              |
| 3     | 1.15 | Variable | 230     | 60   | 14.0    | *EVSS3-NS      | \$1,250 | 56Y         | 13.25             | 42              |

### extreme-E C-Flange, Premium Energy Efficient, Full Service Factor, Full Rated, Category "J"

| HP    | SF   | RPM      | Voltage | Freq | SF Amps | Catalog Number | List    | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) |
|-------|------|----------|---------|------|---------|----------------|---------|-------------|-------------------|-----------------|
| 1 1/2 | 1.60 | Variable | 230     | 60   | 10.0    | *EVSJ15-NS     | \$1,200 | 56J         | 13.09             | 43              |
| 3     | 1.15 | Variable | 230     | 60   | 14.0    | *EVSJ3-NS      | \$1,250 | 56J         | 13.09             | 43              |

\*Meets California Energy Commission Appliance Regulations 2008  
(Publication Number CEC-400-2006-002-REV1)

Catalog numbers are for competitive comparison purposes only

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## affinity™ with Timer Switchless Design, 6.5" Frame Diameter, Category "S" & "J"



### FEATURES:

- Two Compartment
- Shaft Threads - (Square Flange) 1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class B Insulated
- Open Dripproof
- Sealed Ball Bearings
- Switchless Design
- 303 Stainless Steel Shaft
- Thermally Protected
- 6.5" Diameter Frame
- Fully Integrated Motor Control
- Program for Low & High Speeds
- Two Settings - Mon-Fri and Sat/Sun
- High/Low Speed Override
- Freeze Sensor
- Discount Symbol: DS-FPS



### extreme E Square Flange, Premium Energy Efficient, Full Service Factor, Full Rated, Category "S"

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4 / 1/8   | 1.65 | 3450/1725 | 230     | 60   | 5.8/1.2  | *ASB2980T      | \$565 | 56Y         | 12.05             | 32             |
| 1 / 0.16    | 1.65 | 3450/1725 | 230     | 60   | 7.4/1.3  | *ASB2982T      | \$577 | 56Y         | 12.30             | 34             |
| 1 1/2 / 1/4 | 1.45 | 3450/1725 | 230     | 60   | 9.2/2.1  | *ASB2983T      | \$639 | 56Y         | 12.55             | 36             |
| 2 / 1/3     | 1.30 | 3450/1725 | 230     | 60   | 10.6/2.4 | *ASB2984T      | \$750 | 56Y         | 13.30             | 39             |

### extreme E C-Flange, Premium Energy Efficient, Full Service Factor, Full Rated, Category "J"

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4 / 1/10  | 1.50 | 3450/1725 | 230     | 60   | 5.6/1.2  | *ASB2973HT     | \$563 | 56J         | 12.27             | 31             |
| 1 / 1/8     | 1.40 | 3450/1725 | 230     | 60   | 6.5/1.3  | *ASB2975T      | \$575 | 56J         | 12.27             | 33             |
| 1 1/2 / 1/5 | 1.30 | 3450/1725 | 230     | 60   | 8.2/2.0  | *ASB2977T      | \$637 | 56J         | 12.27             | 35             |
| 2 / 1/4     | 1.20 | 3450/1725 | 230     | 60   | 10.0/2.1 | *ASB2979T      | \$748 | 56J         | 12.52             | 38             |

\*Meets California Energy Commission Appliance Regulations 2008  
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extreme E EXTREME E® represents our most efficient running, highest performing lines of motors.





## 56 Frame Pool & Spa Motors

### Switchless Design, 6.5" Frame Diameter, Category "S" & "J"



#### FEATURES:

- Two Compartment
- Shaft Threads - 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class B Insulated
- Open Dripproof
- Sealed Ball Bearings
- 303 Stainless Steel Shaft
- Switchless Design
- Thermally Protected
- Discount Symbol: DS-FPS

#### extreme E Square Flange, Premium Energy Efficient, Full Service Factor, Full Rated

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4 / 1/8   | 1.67 | 3450/1725 | 230     | 60   | 5.8/1.2  | *ASB2980       | \$433 | 56Y         | 12.05             | 30             |
| 1.0 / 0.16  | 1.65 | 3450/1725 | 230     | 60   | 7.4/1.3  | *ASB2982       | \$445 | 56Y         | 12.30             | 32             |
| 1 1/2 / 1/4 | 1.47 | 3450/1725 | 230     | 60   | 9.2/2.1  | *ASB2983       | \$507 | 56Y         | 12.55             | 34             |
| 2 / 1/3     | 1.30 | 3450/1725 | 230     | 60   | 10.6/2.4 | *ASB2984       | \$618 | 56Y         | 13.30             | 37             |

#### extreme E C-Flange, Premium Energy Efficient, Full Service Factor, Full Rated, Category "J"

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4 / 1/10  | 1.50 | 3450/1725 | 230     | 60   | 5.6/1.2  | *ASB2973H      | \$431 | 56J         | 12.27             | 21             |
| 1 / 1/8     | 1.40 | 3450/1725 | 230     | 60   | 6.5/1.3  | *ASB2975       | \$443 | 56J         | 12.27             | 28             |
| 1 1/2 / 1/5 | 1.30 | 3450/1725 | 230     | 60   | 8.2/2.0  | *ASB2977       | \$505 | 56J         | 12.27             | 32             |
| 2 / 1/4     | 1.20 | 3450/1725 | 230     | 60   | 10.0/2.1 | *ASB2979       | \$616 | 56J         | 12.52             | 23             |

\*Meets California Energy Commission Appliance Regulations 2008  
(Publication Number CEC-400-2006-002-REV1)

Catalog numbers are for competitive comparison purposes only

† All marks shown within this document are properties of their respective owners.



## Pool & Spa Replacement Motors Superior Environmental Protection Switchless Design, 6.5" Frame Diameter, Category "J"

### FEATURES:

- Shaft Threads 1/2-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- Continuous Duty
- Class B Insulated
- Totally Enclosed Fan Cooled
- Sealed Ball Bearings
- Switchless Design
- 303 Stainless Steel Shaft
- Thermally Protected
- 6.5" Diameter Frame
- 1081 Design
- Discount Symbol: DS-FPS



### C-Flange, Premium Energy Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps      | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|-------------|------|--------------|----------------|-------|-------------|-------------------|----------------|
| 3/4   | 1.50 | 3450 | 208-230/115 | 60   | 5.4-5.0/10.0 | ETE638         | \$374 | 56J         | 10.32             | 29             |
| 1     | 1.40 | 3450 | 208-230/115 | 60   | 6.2-5.8/11.6 | ETE654         | \$415 | 56J         | 10.32             | 30             |
| 1 1/2 | 1.30 | 3450 | 208-230/115 | 60   | 8.7-7.8/15.6 | ETE796         | \$474 | 56J         | 11.32             | 37             |
| 2     | 1.20 | 3450 | 208-230     | 60   | 10.3/9.5     | ETE809         | \$555 | 56J         | 11.32             | 37             |

## Pool & Spa Motors Superior Environmental Protection Switchless Design, 6.5" Frame Diameter, Category "S"

### FEATURES:

- Shaft Threads 1/2-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- Continuous Duty
- Class B Insulated
- Totally Enclosed Fan Cooled
- Sealed Ball Bearings
- Switchless Design
- 303 Stainless Steel Shaft
- Thermally Protected
- 6.5" Diameter Frame
- 1081 Design
- Discount Symbol: DS-FPS



### Square-Flange, Premium Energy Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps      | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|-------------|------|--------------|----------------|-------|-------------|-------------------|----------------|
| 3/4   | 1.67 | 3450 | 208-230/115 | 60   | 5.9-5.5/11.0 | ETE661         | \$356 | 56Y         | 11.27             | 30             |
| 1     | 1.65 | 3450 | 208-230/115 | 60   | 7.6-7.2/14.4 | ETE841         | \$386 | 56Y         | 11.27             | 31             |
| 1 1/2 | 1.47 | 3450 | 208-230/115 | 60   | 9.7-9.0/18.0 | ETE842         | \$487 | 56Y         | 12.27             | 38             |
| 2     | 1.30 | 3450 | 208-230     | 60   | 10.6/10.0    | ETE843         | \$579 | 56Y         | 12.27             | 38             |

Catalog numbers are for competitive comparison purposes only.

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EXTREME E® represents our most efficient running, highest performing lines of motors.

# Square Flange Pool & Spa Switchless Design, 6.5" Frame Diameter, Category "S"



## FEATURES:

- Two Compartment
- 1081 Design
- Open Dripproof
- 303 Stainless Steel Shaft
- Shaft Threads - 1/2-20 UNF-2A
- Voltage Selection Device (Dual Voltage Only)
- Switchless Design
- 6.5" Diameter Frame
- Triple Bearing Protection
- Continuous Duty
- Sealed Ball Bearings
- Class B Insulated
- Thermally Protected
- 50°C Ambient
- Discount Symbol: DS-FPS

## Standard Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps   | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|-----------|----------------|-------|-------------|-------------------|----------------|
| 1/2   | 1.95 | 3450 | 230/115 | 60   | 5.4/10.8  | *ASB846        | \$247 | 56Y         | 11.24             | 22             |
| 3/4   | 1.65 | 3450 | 230/115 | 60   | 7.0/14.0  | ASB847         | \$281 | 56Y         | 11.74             | 25             |
| 1     | 1.65 | 3450 | 230/115 | 60   | 7.7/15.4  | ASB848         | \$321 | 56Y         | 11.74             | 26             |
| 1 1/2 | 1.50 | 3450 | 230/115 | 60   | 10.8/21.6 | ASB858         | \$423 | 56Y         | 12.99             | 33             |
| 2     | 1.30 | 3450 | 230     | 60   | 11.5      | ASB748         | \$513 | 56Y         | 12.74             | 33             |
| 3     | 1.15 | 3450 | 208-230 | 60   | 14.8/13.5 | ASB844         | \$620 | 56Y         | 13.49             | 40             |
| 5     | 1.00 | 3450 | 208-230 | 60   | 21.0/19.4 | ASB850Δ        | \$705 | 56Y         | 15.24             | 52             |

## Standard Efficient, Low Service Factor, Up-Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps   | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|-----------|----------------|-------|-------------|-------------------|----------------|
| 3/4   | 1.25 | 3450 | 230/115 | 60   | 5.4/10.8  | EB852          | \$247 | 56Y         | 11.24             | 22             |
| 1     | 1.25 | 3450 | 230/115 | 60   | 7.0/14.0  | EB853          | \$281 | 56Y         | 11.74             | 25             |
| 1 1/2 | 1.10 | 3450 | 230/115 | 60   | 7.7/15.4  | EB854          | \$327 | 56Y         | 11.74             | 26             |
| 2     | 1.10 | 3450 | 230/115 | 60   | 10.8/21.6 | EB859          | \$423 | 56Y         | 12.99             | 33             |
| 2 1/2 | 1.04 | 3450 | 230     | 60   | 11.5      | EB840          | \$523 | 56Y         | 12.74             | 33             |

## extreme E Premium Energy Efficient, Full Service Factor, Full Rated (Suitable For 50 Hertz, 1.0 Service Factor)

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps      | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|-------------|------|--------------|----------------|-------|-------------|-------------------|----------------|
| 1/2   | 1.90 | 3450 | 208-230/115 | 60   | 4.4-4.2/8.4  | *ASB845        | \$292 | 56Y         | 11.24             | 22             |
| 3/4   | 1.67 | 3450 | 208-230/115 | 60   | 5.9-5.5/11.0 | ASB661         | \$321 | 56Y         | 11.74             | 25             |
| 1     | 1.65 | 3450 | 208-230/115 | 60   | 7.6-7.2/14.4 | ASB841         | \$348 | 56Y         | 11.74             | 26             |
| 1 1/2 | 1.47 | 3450 | 208-230/115 | 60   | 9.7-9.0/18.0 | ASB842         | \$439 | 56Y         | 12.99             | 33             |
| 2     | 1.30 | 3450 | 208-230     | 60   | 10.6/10.0    | ASB843         | \$522 | 56Y         | 12.74             | 33             |
| 3     | 1.15 | 3450 | 208-230     | 60   | 14.8/13.5    | ASB844         | \$620 | 56Y         | 13.49             | 40             |
| 5     | 1.00 | 3450 | 208-230     | 60   | 21.0/19.4    | ASB850Δ        | \$705 | 56Y         | 15.24             | 52             |

## extreme E Premium Energy Efficient, Two Speed, Full Service Factor, Full Rated, Soft Start, Switch Design

| HP        | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-----------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4 / 1/8 | 1.67 | 3450/1725 | 115     | 60   | 14.5/5.3 | *EB981         | \$449 | 56Y         | 12.30             | 30             |

STA-RITE® Max-E-GLAS™ / DURA-GLAS™ Replacement Motor Base Available B3574344900000L  
 \*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)  
 Δ 190 Volt Maximum Operating Voltage for 50 Hertz  
 NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI-X2975769700000L

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# HAYWARD® TriStar™ Replacement Square Flange 6.5" Frame Diameter, Category "T"



## FEATURES:

- Two Compartment
- 1081 Design
- Open Dripproof
- 303 Stainless Steel Shaft
- Shaft Threads - 1/2-20 UNF-2A
- Continuous Duty
- Thermally Protected
- 60°C Ambient
- Voltage Selection Device (Dual Voltage Only)
- Switchless Design
- 6.5" Diameter Frame
- Triple Bearing Protection
- Class B Insulated
- Sealed Ball Bearings
- Discount Symbol: DS-FPS



## extreme E Premium Energy Efficient, Full Service Factor, Full Rated (Switch Design)

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps        | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) |
|-------|------|------|-------------|------|----------------|----------------|-------|-------------|-------------------|-----------------|
| 1/2   | 1.98 | 3450 | 208-230/115 | 60   | 5.3-4.9/9.8    | *ET3205        | \$299 | 56Y         | 11.49             | 24              |
| 3/4   | 1.85 | 3450 | 208-230/115 | 60   | 7.0-6.2/12.4   | ET3207         | \$336 | 56Y         | 11.74             | 26              |
| 1     | 1.85 | 3450 | 208-230/115 | 60   | 8.5-7.4/14.8   | ET3210         | \$380 | 56Y         | 12.24             | 30              |
| 1 1/2 | 1.60 | 3450 | 208-230/115 | 60   | 11.2-10.2/20.4 | ET3215         | \$484 | 56Y         | 12.74             | 34              |
| 2     | 1.35 | 3450 | 208-230     | 60   | 11.8-11.0      | ET3220         | \$573 | 56Y         | 12.74             | 35              |

## extreme E Standard Efficient, Low Service Factor, Up/Max Rated (50°C Ambient, Switchless Design)

| HP    | SF   | RPM  | Voltage | Freq | SF Amps   | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) |
|-------|------|------|---------|------|-----------|----------------|-------|-------------|-------------------|-----------------|
| 3/4   | 1.25 | 3450 | 230/115 | 60   | 5.4/10.8  | *ASB852        | \$248 | 56Y         | 11.24             | 22              |
| 1     | 1.25 | 3450 | 230/115 | 60   | 7.0/14.0  | ASB853         | \$282 | 56Y         | 11.74             | 25              |
| 1 1/2 | 1.10 | 3450 | 230/115 | 60   | 7.7/15.4  | ASB854         | \$327 | 56Y         | 11.74             | 26              |
| 2     | 1.10 | 3450 | 230/115 | 60   | 10.8/21.6 | ASB859         | \$423 | 56Y         | 12.99             | 33              |
| 2 1/2 | 1.04 | 3450 | 230     | 60   | 11.5      | ASB840         | \$523 | 56Y         | 12.74             | 33              |
| 3     | 1.15 | 3450 | 208-230 | 60   | 14.8/13.5 | ASB844         | \$620 | 56Y         | 13.49             | 40              |

\*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)

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# C-Flange Pool & Spa Motors

## Switchless Design, 6.5" Frame Diameter, Category "S" & "J"



### FEATURES:

- Two Compartment
- Shaft Threads - 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class B Insulated
- Open Dripproof
- Sealed Ball Bearings
- 303 Stainless Steel Shaft
- Thermally Protected
- 6.5" Diameter Frame
- Switchless Design
- Voltage Selection Device (Dual Voltage Only)
- Discount Symbol: DS-FPS

### Standard Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps   | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) | Shaft    |
|-------|------|------|---------|------|-----------|----------------|-------|-------------|-------------------|----------------|----------|
| 1/2   | 1.60 | 3450 | 230/115 | 60   | 4.4/8.8   | *ASB120        | \$235 | 56C         | 10.27             | 21             | Keyed    |
|       | 1.60 | 3450 | 230/115 | 60   | 4.4/8.8   | *ASB126        | \$241 | 56J         | 10.27             | 21             | Threaded |
| 3/4   | 1.50 | 3450 | 230/115 | 60   | 6.0/12.0  | ASB121         | \$264 | 56C         | 10.77             | 24             | Keyed    |
|       | 1.50 | 3450 | 230/115 | 60   | 6.0/12.0  | ASB127         | \$268 | 56J         | 10.77             | 24             | Threaded |
| 1     | 1.40 | 3450 | 230/115 | 60   | 7.0/14.0  | ASB122         | \$302 | 56C         | 10.77             | 25             | Keyed    |
|       | 1.40 | 3450 | 230/115 | 60   | 7.0/14.0  | ASB128         | \$307 | 56J         | 10.77             | 25             | Threaded |
| 1 1/2 | 1.30 | 3450 | 230/115 | 60   | 9.0/18.0  | ASB123         | \$405 | 56C         | 12.02             | 31             | Keyed    |
|       | 1.30 | 3450 | 230/115 | 60   | 9.0/18.0  | ASB129         | \$415 | 56J         | 12.02             | 31             | Threaded |
| 2     | 1.20 | 3450 | 230     | 60   | 10.5      | ASB124         | \$489 | 56C         | 11.77             | 33             | Keyed    |
|       | 1.20 | 3450 | 230     | 60   | 10.5      | ASB130         | \$497 | 56J         | 11.77             | 33             | Threaded |
| 3     | 1.15 | 3450 | 208-230 | 60   | 14.8/13.5 | ASB817         | \$651 | 56C         | 12.52             | 39             | Keyed    |
|       | 1.15 | 3450 | 208-230 | 60   | 14.8/13.5 | ASB818         | \$659 | 56J         | 12.52             | 39             | Threaded |
| 5     | 1.00 | 3450 | 208-230 | 60   | 21.0/19.4 | ASB819Δ        | \$713 | 56J         | 14.27             | 51             | Threaded |

### Standard Efficient, Low Service Factor, Up-Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) | Shaft    |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|----------|
| 3/4   | 1.00 | 3450 | 230/115 | 60   | 4.4/8.8  | *EB227         | \$241 | 56J         | 10.27             | 21             | Threaded |
| 1     | 1.00 | 3450 | 230/115 | 60   | 6.0/12.0 | *EB228         | \$268 | 56J         | 10.77             | 24             | Threaded |
| 1 1/2 | 1.00 | 3450 | 230/115 | 60   | 7.0/14.0 | EB229          | \$307 | 56J         | 10.77             | 25             | Threaded |
| 2     | 1.00 | 3450 | 230/115 | 60   | 9.0/18.0 | EB230          | \$423 | 56J         | 12.02             | 31             | Threaded |
| 2 1/2 | 1.00 | 3450 | 230     | 60   | 10.5     | EB231          | \$497 | 56J         | 11.77             | 33             | Threaded |

STA-RITE®† Max-E-GLAS™ / DURA-GLAS™ Replacement Motor Base Available B357434490000L  
 \*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)  
 Δ 190 Volt Maximum Operating Voltage for 50 Hertz B14 flange, metric shaft  
 NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI-X2975769700000L

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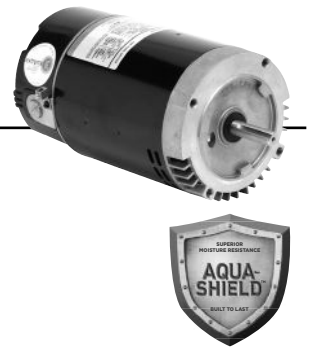
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# C-Flange Pool & Spa Motors

## Switchless Design, 6.5" Frame Diameter, Category "S" & "J"

(continued)



### Premium Energy Efficient, Full Service Factor, Full Rated (Suitable for 50 Hertz, 1.0 Service Factor)

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps   | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) | Shaft    |
|-------|------|------|-------------|------|-----------|----------------|-------|-------------|-------------------|----------------|----------|
| 1/2   | 1.60 | 3450 | 208-230/115 | 60   | 4.4/8.8   | *ASB656        | \$303 | 56C         | 10.52             | 24             | Keyed    |
|       | 1.60 | 3450 | 208-230/115 | 60   | 4.4/8.8   | *ASB657        | \$307 | 56J         | 10.52             | 24             | Threaded |
| 3/4   | 1.50 | 3450 | 208-230/115 | 60   | 6.0/12.0  | ASB634         | \$333 | 56C         | 11.02             | 27             | Keyed    |
|       | 1.50 | 3450 | 208-230/115 | 60   | 6.0/12.0  | ASB638         | \$337 | 56J         | 11.02             | 27             | Threaded |
| 1     | 1.40 | 3450 | 208-230/115 | 60   | 7.0/14.0  | ASB653         | \$370 | 56C         | 11.02             | 29             | Keyed    |
|       | 1.40 | 3450 | 208-230/115 | 60   | 7.0/14.0  | ASB654         | \$374 | 56J         | 11.02             | 29             | Threaded |
| 1 1/2 | 1.30 | 3450 | 208-230/115 | 60   | 9.0/18.0  | ASB795         | \$410 | 56C         | 12.02             | 35             | Keyed    |
|       | 1.30 | 3450 | 208-230/115 | 60   | 9.0/18.0  | ASB796         | \$428 | 56J         | 12.02             | 35             | Threaded |
| 2     | 1.20 | 3450 | 208-230     | 60   | 10.5      | ASB808         | \$492 | 56C         | 12.02             | 34             | Keyed    |
|       | 1.20 | 3450 | 208-230     | 60   | 10.5      | ASB809         | \$501 | 56J         | 12.02             | 34             | Threaded |
| 3     | 1.15 | 3450 | 208-230     | 60   | 14.8/13.5 | ASB817         | \$651 | 56C         | 12.52             | 39             | Keyed    |
|       | 1.15 | 3450 | 208-230     | 60   | 14.8/13.5 | ASB818         | \$659 | 56J         | 12.52             | 39             | Threaded |
| 5     | 1.00 | 3450 | 208-230     | 60   | 21.0/19.4 | ASB819Δ        | \$713 | 56J         | 14.27             | 51             | Threaded |

### Two Speed, Full Service, Full Rated, Soft Start

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) | Shaft    |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|----------|
| 3/4 / 1/10  | 1.50 | 3450/1725 | 115     | 60   | 11.2/5.0 | *ASB972        | \$428 | 56C         | 11.02             | 28             |          |
|             | 1.50 | 3450/1725 | 115     | 60   | 11.2/5.0 | *EB973         | \$433 | 56J         | 11.02             | 28             | Threaded |
|             | 1.50 | 3450/1725 | 230     | 60   | 5.8/2.3  | *ASB972H       | \$433 | 56C         | 11.02             | 28             |          |
|             | 1.50 | 3450/1725 | 230     | 60   | 5.8/2.3  | *ASB973H       | \$438 | 56J         | 11.02             | 28             |          |
| 1 / 1/8     | 1.40 | 3450/1725 | 230     | 60   | 6.8/2.8  | *ASB974        | \$455 | 56C         | 11.27             | 32             |          |
|             | 1.40 | 3450/1725 | 230     | 60   | 6.8/2.8  | *ASB975        | \$460 | 56J         | 11.27             | 32             |          |
| 1.5 / 0.188 | 1.30 | 3450/1725 | 230     | 60   | 9.4/3.0  | *ASB976        | \$522 | 56C         | 11.77             | 40             |          |
|             | 1.30 | 3450/1725 | 230     | 60   | 9.4/3.0  | *ASB977        | \$527 | 56J         | 11.77             | 40             |          |
| 2 / 1/4     | 1.20 | 3450/1725 | 230     | 60   | 10.8/3.6 | *ASB978        | \$714 | 56C         | 12.02             | 45             |          |
|             | 1.20 | 3450/1725 | 230     | 60   | 10.8/3.6 | *ASB979        | \$718 | 56J         | 12.02             | 45             |          |
| 3 / 3/8     | 1.15 | 3450/1725 | 230     | 60   | 13.8/4.0 | *ASB966        | \$898 | 56J         | 12.52             | 49             |          |

STA-RITE® Max-E-GLAS™ / DURA-GLAS™ Replacement Motor Base Available B3574344900000L

\*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)

Δ 190 Volt Maximum Operating Voltage for 50 Hertz B14 flange, metric shaft

NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI-X2975769700000L

Catalog numbers are for competitive comparison purposes only

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# HAYWARD® NORTHSTAR Replacement™ C-Flange Switchless Design, 6.5" Frame Diameter, Threaded Shaft; Category "N"

## FEATURES:

- Two Compartment
- Triple Bearing Protection
- Thermally Protected
- 1081 Design
- Shaft Threads - 7/16-20 UNF-2A
- Class B Insulated
- Open Dripproof
- Continuous Duty
- 65°C Ambient
- 6.5" Diameter Frame
- 303 Stainless Steel Shaft
- Sealed Ball Bearings
- Voltage Selection Device (Dual Voltage Only)
- Discount Symbol: DS-FPS



## extreme E Premium Energy Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps        | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|-------------|------|----------------|----------------|-------|-------------|-------------------|----------------|
| 3/4   | 1.85 | 3450 | 208-230/115 | 60   | 6.0-5.5/11.0   | ESN1072        | \$357 | 56J         | 11.02             | 27             |
| 1     | 1.85 | 3450 | 208-230/115 | 60   | 8.5-7.8/15.6   | ESN1102        | \$396 | 56J         | 11.27             | 30             |
| 1 1/2 | 1.60 | 3450 | 208-230/115 | 60   | 11.0-10.2/20.4 | ESN1152        | \$454 | 56J         | 11.77             | 33             |
| 2     | 1.35 | 3450 | 208-230     | 60   | 13.0-11.8      | ESN1202        | \$531 | 56J         | 11.77             | 35             |
| 3     | 1.60 | 3450 | 208-230     | 60   | 20.6-19.0      | ESN1302        | \$796 | 56J         | 14.02             | 47             |

## extreme E Premium Energy Efficient, Low Service Factor, Up/Max Rated

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps        | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|-------------|------|----------------|----------------|-------|-------------|-------------------|----------------|
| 1     | 1.40 | 3450 | 208-230/115 | 60   | 6.0-5.5/11.0   | EUSN1102       | \$357 | 56J         | 11.02             | 27             |
| 1 1/2 | 1.25 | 3450 | 208-230/115 | 60   | 8.5-7.8/15.6   | EUSN1152       | \$396 | 56J         | 11.27             | 30             |
| 2     | 1.20 | 3450 | 208-230/115 | 60   | 11.0-10.2/20.4 | EUSN1202       | \$454 | 56J         | 11.77             | 33             |
| 2 1/2 | 1.10 | 3450 | 208-230     | 60   | 13.0-11.8      | EUSN1252       | \$531 | 56J         | 11.77             | 35             |
| 3     | 1.20 | 3450 | 208-230     | 60   | 16.0-14.8      | EUSN1302       | \$763 | 56J         | 12.52             | 41             |

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extreme E EXTREME E® represents our most efficient running, highest performing lines of motors.

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# Square Flange Pool & Spa Motors

## Switchless Design, 5.5" Frame Diameter: Category "S"



### FEATURES:

- Two Compartment
- Triple Bearing Protection
- Thermally Protected
- 1081 Design
- Shaft Threads - 7/16-20 UNF-2A
- Class B Insulated
- Open Dripproof
- Continuous Duty
- 50°C Ambient
- Sealed Ball Bearings
- 303 Stainless Steel Shaft
- Voltage Selection Device (Dual Voltage Only)
- **Discount Symbol: DS-FPS**

### Standard Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 1/2   | 1.95 | 3450 | 230/115 | 60   | 5.9/11.8 | ESQ1052        | \$243 | 48Y         | 11.03             | 22             |
| 3/4   | 1.65 | 3450 | 230/115 | 60   | 7.5/15.0 | ESQ1072        | \$276 | 48Y         | 11.78             | 25             |
| 1     | 1.65 | 3450 | 230/115 | 60   | 8.5/17.0 | ESQ1102        | \$321 | 48Y         | 12.28             | 26             |
| 1 1/2 | 1.50 | 3450 | 230/115 | 60   | 9.7/19.4 | ESQ1152▲       | \$415 | 48Y         | 12.53             | 33             |
| 2     | 1.30 | 3450 | 230     | 60   | 10.4     | ESQ1202▲       | \$513 | 48Y         | 12.78             | 33             |

### Standard Efficient, Low Service Factor, Up-Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 1/2   | 1.30 | 3450 | 230/115 | 60   | 4.9/9.8  | EUSQ1052       | \$232 | 48Y         | 10.78             | 19             |
| 3/4   | 1.27 | 3450 | 230/115 | 60   | 5.9/11.8 | EUSQ1072       | \$243 | 48Y         | 11.03             | 21             |
| 1     | 1.25 | 3450 | 230/115 | 60   | 7.5/15.0 | EUSQ1102       | \$276 | 48Y         | 11.78             | 24             |
| 1 1/2 | 1.10 | 3450 | 230/115 | 60   | 8.5/17.0 | EUSQ1152       | \$321 | 48Y         | 12.28             | 26             |
| 2     | 1.10 | 3450 | 230/115 | 60   | 9.7/19.4 | EUSQ1202▲      | \$415 | 48Y         | 12.53             | 29             |
| 2 1/2 | 1.04 | 3450 | 230     | 60   | 10.4     | EUSQ1252▲      | \$513 | 48Y         | 12.78             | 31             |

### High Efficiency, Full Service Factor, Full Rated, Switch Design

| HP  | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-----|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 1/2 | 1.90 | 3450 | 230/115 | 60   | 437/9.4  | *EQC1052▲      | \$292 | 48Y         | 10.78             | 21             |
| 3/4 | 1.65 | 3450 | 230/115 | 60   | 6.3/12.6 | EQC1072▲       | \$321 | 48Y         | 11.28             | 23             |
| 1   | 1.65 | 3450 | 230/115 | 60   | 7.8/15.6 | EQC1102▲       | \$348 | 48Y         | 11.78             | 26             |

### High Efficient, Low Service Factor, Up-Rated, Switch Design

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4   | 1.27 | 3450 | 230/115 | 60   | 4.7/9.4  | *EUQC1072▲     | \$292 | 48Y         | 10.78             | 21             |
| 1     | 1.25 | 3450 | 230/115 | 60   | 6.3/12.6 | EUQC1102▲      | \$321 | 48Y         | 11.28             | 23             |
| 1 1/2 | 1.10 | 3450 | 230/115 | 60   | 7.8/15.6 | EUQC1152▲      | \$348 | 48Y         | 11.78             | 26             |

STA-RITE® Max-E-GLAS™ / DURA-GLAS™ Replacement Motor Base Available B3574344900000L

\* Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)

NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI- X2975769700000L

▲ High Efficiency, Capacitor Start/Run Design

Catalog numbers are for competitive comparison purposes only

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# C-Flange Pool & Spa Motors

## Switchless Design, 5.5" Diameter, Threaded Shaft: Category "J"



### FEATURES:

- Two Compartment
- Triple Bearing Protection
- Thermally Protected
- 1081 Design
- Shaft Threads - 7/16-20 UNF-2A
- Class B Insulated
- Open Dripproof
- Continuous Duty
- 50°C Ambient
- 303 Stainless Steel Shaft
- Sealed Ball Bearings
- Voltage Selection Device (Dual Voltage Only)
- Discount Symbol: **DS-FPS**

### Standard Efficient, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 1/2   | 1.60 | 3450 | 230/115 | 60   | 5.0/10.0 | EST1052        | \$236 | 56J         | 9.34              | 19             |
| 3/4   | 1.50 | 3450 | 230/115 | 60   | 6.8/13.6 | EST1072        | \$263 | 56J         | 10.09             | 22             |
| 1     | 1.50 | 3450 | 230/115 | 60   | 7.8/15.6 | EST1102        | \$301 | 56J         | 10.59             | 24             |
| 1 1/2 | 1.30 | 3450 | 230/115 | 60   | 8.4/16.8 | EST1152▲       | \$415 | 56J         | 10.84             | 27             |
| 2     | 1.30 | 3450 | 230     | 60   | 10.0     | EST1202▲       | \$487 | 56J         | 11.09             | 29             |

### Standard Efficient, Low Service Factor, Up Rated

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4   | 1.00 | 3450 | 230/115 | 60   | 5.0/10.0 | EUST1072       | \$236 | 56J         | 9.34              | 19             |
| 1     | 1.00 | 3450 | 230/115 | 60   | 6.8/13.6 | EUST1102       | \$263 | 56J         | 10.09             | 22             |
| 1 1/2 | 1.00 | 3450 | 230/115 | 60   | 7.8/15.6 | EUST1152       | \$301 | 56J         | 10.59             | 24             |
| 2     | 1.00 | 3450 | 230/115 | 60   | 8.4/16.8 | EUST1202▲      | \$415 | 56J         | 10.84             | 27             |
| 2 1/2 | 1.00 | 3450 | 230     | 60   | 10.0     | EUST1252▲      | \$487 | 56J         | 11.09             | 29             |

### High Efficiency Design, Full Service Factor, Full Rated

| HP  | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-----|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 1/2 | 1.60 | 3450 | 230/115 | 60   | 4.0/8.0  | *ECT1052▲      | \$292 | 56J         | 9.34              | 20             |
| 3/4 | 1.50 | 3450 | 230/115 | 60   | 5.5/11.0 | ECT1072▲       | \$321 | 56J         | 9.84              | 22             |
| 1   | 1.40 | 3450 | 230/115 | 60   | 7.0/14.0 | ECT1102▲       | \$348 | 56J         | 10.34             | 25             |

\*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)

▲ High Efficiency, Capacitor Start/Run Design

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## Pool Cleaner Replacement Motors

### Switchless Design, 6.5" Diameter: Category "P"



#### FEATURES:

- Two Compartment
- Shaft Threads – 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Voltage Selection Device
- Class B Insulated
- Open Dripproof
- Sealed Ball Bearings
- Switchless Design
- 303 Stainless Steel Shaft
- Thermally Protected
- 6.5" Diameter Frame
- **Discount Symbol: DS-FPS**

| HP  | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Replacement Brand  |
|-----|------|------|---------|------|----------|----------------|-------|-------------|-------------------|-----------------|--------------------|
| 3/4 | 1.50 | 3450 | 230/115 | 60   | 6.3/12.6 | ASB625         | \$305 | 56CZ        | 10.8              | 28              | Polaris®†/Zodiac®† |
|     | 1.50 | 3450 | 230/115 | 60   | 6.0/12.0 | ASB668         | \$305 | 56CZ        | 10.8              | 24              | Letro®†/Pentair®†  |

† All marks shown within this document are properties of their respective owners.



# Three Phase Pool & Spa Motors

## FEATURES:

- Single Compartment
- Sealed Ball Bearings
- Triple Bearing Protection
- Open Dripproof
- Class B Insulated
- 303 Stainless Steel Shaft
- Continuous Duty
- 50°C Ambient
- Rated for 50 Hertz, 1.0 Service Factor
- Discount Symbol: **DS-FPS**

## Square Flange, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps     | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Shaft    |
|-------|------|------|-------------|------|-------------|----------------|-------|-------------|-------------------|-----------------|----------|
| 1/2   | 1.90 | 3450 | 208-230/460 | 60   | 2.9-2.6/1.3 | *EH491         | \$312 | 56Y         | 10.27             | 23              | Threaded |
| 3/4   | 1.65 | 3450 | 208-230/460 | 60   | 4.1-3.8/1.9 | *EH492         | \$343 | 56Y         | 10.27             | 23              | Threaded |
| 1     | 1.65 | 3450 | 208-230/460 | 60   | 4.8-4.6/2.3 | *EH635         | \$383 | 56Y         | 10.27             | 25              | Threaded |
| 1 1/2 | 1.47 | 3450 | 208-230/460 | 60   | 6.4-6.2/3.1 | *EH636         | \$486 | 56Y         | 10.52             | 28              | Threaded |
| 2     | 1.30 | 3450 | 208-230/460 | 60   | 7.0-6.6/3.3 | *EH637         | \$589 | 56Y         | 11.02             | 33              | Threaded |
| 3     | 1.15 | 3450 | 208-230/460 | 60   | 9.6-9.4/4.7 | *EH755         | \$638 | 56Y         | 12.04             | 41              | Threaded |

## C-Flange, Keyed & Threaded Shaft, Full Service Factor, Full Rated

| HP    | SF   | RPM  | Voltage     | Freq | SF Amps     | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Shaft    |
|-------|------|------|-------------|------|-------------|----------------|-------|-------------|-------------------|-----------------|----------|
| 3/4   | 1.50 | 3450 | 208-230/460 | 60   | 3.7-3.6/1.8 | *EH450         | \$299 | 56C         | 9.07              | 22              | Keyed    |
|       | 1.50 | 3450 | 208-230/460 | 60   | 3.7-3.6/1.8 | *EH451         | \$326 | 56J         | 9.07              | 22              | Threaded |
| 1     | 1.40 | 3450 | 208-230/460 | 60   | 4.4-4.2/2.1 | *EH513         | \$339 | 56C         | 9.07              | 24              | Keyed    |
|       | 1.40 | 3450 | 208-230/460 | 60   | 4.4-4.2/2.1 | *EH514         | \$370 | 56J         | 9.07              | 24              | Threaded |
| 1 1/2 | 1.30 | 3450 | 208-230/460 | 60   | 6.0-5.8/2.9 | *EH616         | \$441 | 56C         | 9.31              | 27              | Keyed    |
|       | 1.30 | 3450 | 208-230/460 | 60   | 6.0-5.8/2.9 | *EH617         | \$477 | 56J         | 9.31              | 27              | Threaded |
| 2     | 1.20 | 3450 | 208-230/460 | 60   | 6.6-6.4/3.2 | *EH704         | \$482 | 56C         | 9.82              | 32              | Keyed    |
|       | 1.20 | 3450 | 208-230/460 | 60   | 6.6-6.4/3.2 | *EH705         | \$544 | 56J         | 9.82              | 32              | Threaded |
| 3     | 1.15 | 3450 | 208-230/460 | 60   | 9.6-9.4/4.7 | *EH740         | \$602 | 56C         | 10.82             | 40              | Keyed    |
|       | 1.15 | 3450 | 208-230/460 | 60   | 9.6-9.4/4.7 | *EH741         | \$655 | 56J         | 10.82             | 40              | Threaded |

STA-RITE®† Max-E-GLAS™ / DURA-GLAS™ Replacement Motor Base Available B3574344900000L  
 \*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)

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## Thru-Bolt Pool & Spa 6.5" Frame Diameter



### FEATURES:

- Open Dripproof
- Thru-Bolt Mount
- Class F Insulated
- Class B Temperature Rise
- 1081 & 1563 Design
- Sealed Ball Bearing
- Rigid Base
- Thermally Protected
- 60°C Ambient
- 3 O'clock Conduit
- Premium Energy Efficient Design
- Shaft Thread - 3/8-16 UNC-2A
- Discount Symbol: DS-FPS

### extreme-E Premium Energy Efficient, Single Speed, Switchless Design

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Notes |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|-----------------|-------|
| 1 1/2 | 1.00 | 3450 | 230/115 | 60   | 8.8/17.5 | TS602          | \$300 | 56Y         | 9.58              | 28              | 60    |
| 2     | 1.00 | 3450 | 230     | 60   | 10.0     | TS603          | \$330 | 56Y         | 9.58              | 31              |       |
| 2 1/2 | 1.00 | 3450 | 230     | 60   | 11.0     | TS604          | \$390 | 56Y         | 9.58              | 32              |       |
| 3     | 1.00 | 3450 | 230     | 60   | 12.0     | TS605          | \$454 | 56Y         | 10.08             | 35              |       |
| 4     | 1.00 | 3450 | 230     | 60   | 16.4     | TS606          | \$518 | 56Y         | 10.58             | 39              |       |
| 5     | 1.00 | 3450 | 230     | 60   | 19.5     | TS607          | \$595 | 56Y         | 12.58             | 50              |       |

### extreme-E Premium Energy Efficient, Two Speed, Soft Start

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Notes |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|-----------------|-------|
| 1.5 / 0.188 | 1.00 | 3450/1725 | 230     | 60   | 8.0/3.0  | *TT502         | \$329 | 56Y         | 9.58              | 31              |       |
| 2 / 1/4     | 1.00 | 3450/1725 | 230     | 60   | 10.0/3.5 | *TT503         | \$409 | 56Y         | 10.08             | 35              |       |
| 2 1/2 / 1/3 | 1.00 | 3450/1725 | 230     | 60   | 11.0/3.8 | *TT504         | \$455 | 56Y         | 10.33             | 38              |       |
| 3 / 3/8     | 1.00 | 3450/1725 | 230     | 60   | 12.0/4.4 | *TT505         | \$504 | 56Y         | 10.83             | 41              |       |
| 4 / 1/2     | 1.00 | 3450/1725 | 230     | 60   | 16.4/4.8 | *TT506         | \$595 | 56Y         | 11.58             | 45              |       |
| 5 / 5/8     | 1.00 | 3450/1725 | 230     | 60   | 19.5/5.0 | *TT507         | \$640 | 56Y         | 12.08             | 48              |       |

\*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)

Note 60 Capacitor Start  
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EXTREME E® represents our most efficient running, highest performing lines of motors.

# Thru-Bolt Pool & Spa Motors 5.5" Frame Diameter

## FEATURES:

- Open Dripproof
- Thru-Bolt Mount
- Class F Insulated
- 1081, 1563 & 1975 Design
- Rigid Base
- Continuous Duty
- 3 O'Clock Conduit
- Shaft Thread - 3/8-16 UNC-2A RH
- Thermally Protected
- 3 1/2" Shaft Height
- Single Speed Switch Kit Available (X2972712900000L)
- Two Speed Switch Kit Available (X2972706600000L)
- Discount Symbol: DS-FPS

## Single Speed

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Notes |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|-----------------|-------|
| 1/2   | 1.00 | 3450 | 230     | 60   | 7.5      | AGL50FL1       | \$182 | 48Y         | 7.8               | 15              | P2,78 |
| 3/4   | 1.00 | 3450 | 230     | 60   | 10.0     | AGL75FL1       | \$194 | 48Y         | 7.8               | 17              | P2,78 |
|       | 1.00 | 3450 | 230     | 60   | 5.0      | AGH75FL1       | \$201 | 48Y         | 7.8               | 17              | P2,78 |
| 1     | 1.00 | 3450 | 230     | 60   | 6.0      | AGH10FL1       | \$223 | 48Y         | 8.4               | 22              | P2,78 |
|       | 1.00 | 3450 | 230     | 60   | 12.0     | AGL10FL1       | \$214 | 48Y         | 8.4               | 22              | P2,78 |
| 1 1/2 | 1.00 | 3450 | 115/230 | 60   | 15.4/7.7 | AGD15FL1       | \$252 | 48Y         | 8.9               | 25              | P2,78 |
| 2     | 1.00 | 3450 | 230     | 60   | 8.7      | SPH20FL1       | \$317 | 48Y         | 10.2              | 28              | 34    |
|       | 1.00 | 3450 | 230     | 60   | 10.5     | SPH20FLC1      | \$303 | 48Y         | 10.2              | 27              | P4    |
| 2 1/2 | 1.00 | 3450 | 230     | 60   | 10.0     | SPH25FL1       | \$357 | 48Y         | 10.2              | 31              | 34    |
| 3     | 1.00 | 3450 | 230     | 60   | 12.0     | SPH30FL1       | \$441 | 48Y         | 10.2              | 31              | 34    |

## Two Speed, Soft Start

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Notes    |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|-----------------|----------|
| 0.5/0.06    | 1.00 | 3450/1725 | 230     | 60   | 6.4/2.8  | AGL50FL2       | \$232 | 48Y         | 7.8               | 17              | P2,39,78 |
| 3/4 / 1/10  | 1.00 | 3450/1725 | 230     | 60   | 9.8/3.2  | AGL75FL2       | \$252 | 48Y         | 7.8               | 20              | P2,39,78 |
| 1 / 1/8     | 1.00 | 3450/1725 | 230     | 60   | 10.3/3.8 | AGL10FL2S      | \$268 | 48Y         | 9.6               | 23              | P2,39,78 |
|             | 1.00 | 3450/1725 | 230     | 60   | 6.1/1.8  | AGH10FL2       | \$268 | 48Y         | 9.6               | 23              | P2,39,78 |
| 1 1/2 / 1/8 | 1.00 | 3450/1725 | 230     | 60   | 16.4/4.4 | AGL15FL2CS     | \$357 | 48Y         | 10.2              | 26              | P2       |
|             | 1.00 | 3450/1725 | 230     | 60   | 13.6/3.6 | SPL15FL2S      | \$379 | 48Y         | 10.2              | 27              | 34,P4    |
|             | 1.00 | 3450/1725 | 230     | 60   | 8.2/2.4  | AGH15FL2CS     | \$357 | 48Y         | 10.2              | 26              | P2       |
| 2 / 1/4     | 1.00 | 3450/1725 | 230     | 60   | 10.5/3.0 | *SPH20FL2CS    | \$397 | 48Y         | 10.2              | 29              | P4       |
|             | 1.00 | 3450/1725 | 230     | 60   | 8.6/3.4  | *SPH20FL2S     | \$424 | 48Y         | 10.2              | 30              | 34,P4    |
| 2 1/2 / 1/4 | 1.00 | 3450/1725 | 230     | 60   | 11.0/3.3 | *SPH25FL2S     | \$428 | 48Y         | 10.2              | 32              | 34,P4    |
| 3 / 1/3     | 1.00 | 3450/1725 | 230     | 60   | 12.7/3.4 | *SPH30FL2S     | \$468 | 48Y         | 10.6              | 35              | 34,P4    |

## Single Speed, Less Rigid Base

| HP | SF   | RPM  | Voltage | Freq | SF Amps | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Notes |
|----|------|------|---------|------|---------|----------------|-------|-------------|-------------------|-----------------|-------|
| 1  | 1.00 | 3450 | 230     | 60   | 12.0    | AGL10FL1NB     | \$210 | 48Y         | 8.4               | 22              | P2,78 |

## Hoffinger® Replacement, Thru-Bolt Mount, Less Rigid Base, Class B Insulated

| HP      | SF   | RPM  | Voltage | Freq | SF Amps | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs.) | Notes |
|---------|------|------|---------|------|---------|----------------|-------|-------------|-------------------|-----------------|-------|
| 1       | 1.00 | 3450 | 230     | 60   | 9.1     | AGL10FL1H1     | \$201 | 48Y         | 9.4               | 12              |       |
|         | 0.00 | 3450 | 230     | 60   | 10.0    | AGL10FL1H2     | \$201 | 48Y         | 9.6               | 12              |       |
| SPECIAL | 1.00 | 3450 | 230     | 60   | 12.0    | AGL15FL1H2     | \$223 | 48Y         | 10.1              | 15              |       |

Note 34 Capacitor Start/Capacitor Run (Extra low running amps)  
 Note 39 High Speed Start  
 Note 78 Class B Insulation  
 Note P2 416 Stainless Steel Extension  
 Note P4 1563 & 1795 Design Only

\*Meets California Energy Commission Appliance Regulations 2008 (Publication Number CEC-400-2006-002-REV1)  
 STA-RITE® Max-E-GLAS™ / DURA-GLAS™ Replacement Motor Base Available  
 B3574344900000L  
 Catalog numbers are for competitive comparison purposes only

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# Thru-Bolt Pool & Spa Motors

## 5.5" Frame Diameter

### FEATURES:

- Open Dripproof
- Thru Bolt Mount
- Class B Insulated
- Rigid Base
- 50°C Ambient
- 3 O'clock Conduit
- Single Speed Switch Kit Available (X2972712900000L)
- Thermally Protected
- 3 1/2" Shaft Height
- 1081, 1563 & 1795 Design
- Shaft Thread 3/8-16 UNC 2A RH
- Sealed Ball Bearings
- **Discount Symbol: DS-FPS**

### Single Speed - Spa Circulator Pump Motors

| HP   | SF   | RPM  | Voltage | Freq | SF Amps | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|------|------|------|---------|------|---------|----------------|-------|-------------|-------------------|----------------|
| 1/15 | 1.00 | 1725 | 115     | 60   | 1.3     | EV115          | \$146 | 48Y         | 7.25              | 19.45          |
|      | 1.00 | 1725 | 230     | 60   | 0.63    | EV230          | \$139 | 48Y         | 7.25              | 12.06          |

† All marks shown within this document are properties of their respective owners.



## EZ48® Thru-Bolt Pool & Spa Motors 5.5" Frame Diameter



### FEATURES:

- Open Dripproof
- Sealed Ball Bearings
- Class B Insulated
- 1081 Design
- 50°C Ambient
- 3 O'clock Conduit
- Rigid Base
- Thermally Protected
- 3-1/2" Shaft Height
- Shaft Thread - 3/8-16 UNC-2A RH
- 303 Stainless Steel Shaft
- **Discount Symbol: DS-FPS**

### Single Speed - 1.5 Compartment

| HP    | SF   | RPM  | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------|------|------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 1/2   | 1.00 | 3450 | 115     | 60   | 7.5      | EZBN23         | \$182 | 48Y         | 8.7               | 15             |
| 3/4   | 1.00 | 3450 | 115     | 60   | 10.0     | EZBN24         | \$194 | 48Y         | 8.7               | 17             |
| 1     | 1.00 | 3450 | 115     | 60   | 12.0     | EZBN25         | \$214 | 48Y         | 9.3               | 22             |
| 1 1/2 | 1.00 | 3450 | 115     | 60   | 7.7/15.4 | EZBV35         | \$252 | 48Y         | 9.8               | 25             |
|       | 1.00 | 3450 | 230/115 | 60   | 16.0     | EZBN35         | \$252 | 48Y         | 9.8               | 25             |

### Two Speed - 1.5 Compartment

| HP          | SF   | RPM       | Voltage | Freq | SF Amps  | Catalog Number | List  | Motor Frame | Length Less Shaft | Ship Wt. (lbs) |
|-------------|------|-----------|---------|------|----------|----------------|-------|-------------|-------------------|----------------|
| 3/4 / 1/10  | 1.00 | 3450/1725 | 115     | 60   | 9.8/3.2  | EZBN36         | \$252 | 48Y         | 8.7               | 17             |
| 1 / 1/8     | 1.00 | 3450/1725 | 115     | 60   | 12.2/3.8 | EZBN37         | \$268 | 48Y         | 9.2               | 22             |
| 1.5 / 0.188 | 1.00 | 3450/1725 | 115     | 60   | 16.0/4.8 | EZBN50         | \$357 | 48Y         | 11.6              | 25             |

Rocker Switch Cover Assembly available: Two Speed - LO-OFF-HI-X2975862300000L

One Speed - ON-OFF-X2975862200000L

Catalog numbers are for competitive comparison purposes only.

† All marks shown within this document are properties of their respective owners.



## Pool & Spa Motors - Close Coupled Pumps

### Pentair®† EQ Series™ Replacement Pool Motors



#### FEATURES:

- Special JMZ Mounting
- 40°C Ambient
- Continuous Duty
- Class F Insulated
- Open Dripproof
- Permanently Lubricated Ball Bearings
- Rigid Base
- Black Paint
- Stainless Steel Ground Lug
- 303 Stainless Steel Shaft Extension

#### Premium Efficient, Full Service Factor, Full Rated

| HP    | Phase | RPM  | Frame  | Voltage     | Catalog Number | List    | SF   | Full Load Eff | PF   | Ship Wt. (lbs.) |
|-------|-------|------|--------|-------------|----------------|---------|------|---------------|------|-----------------|
| 5     | 1     | 3600 | 184JMZ | 230         | EEQ500         | \$1,224 | 1.15 | 88.0          | 94   | 78              |
|       | 3     | 3600 | 184JMZ | 208-230/460 | EEQK500        | \$961   | 1.15 | 89.5          | 85.8 | 50              |
| 7 1/2 | 1     | 3600 | 213JMZ | 230         | EEQ750         | \$2,449 | 1.15 | 87.0          | 92.3 | 70              |
|       | 3     | 3600 | 184JMZ | 208-230/460 | EEQK750        | \$1,109 | 1.15 | 88.5          | 87   | 60              |
| 10    | 3     | 3600 | 213JMZ | 208-230/460 | EEQK1000       | \$1,468 | 1.15 | 90.2          | 79.2 | 90              |
| 15    | 3     | 3600 | 215JMZ | 208-230/460 | EEQK1500       | \$1,635 | 1.15 | 91.0          | 82   | 105             |

† All marks shown within this document are properties of their respective owners.





# Replacement Motor Cross Reference

## Square Flange - Low Service Factors - Up - Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| EUSQ1052                    |                    | 1/2 | 1.30 | 230/115 | USQ1052             | B856                        |                   | C1243             |
| EUSQ1072                    | EB852              | 3/4 | 1.25 | 230/115 | USQ1072             | B852                        | 54002             | C1244             |
| EUSQ1102                    | EB853              | 1   | 1.25 | 230/115 | USQ1102             | B853                        | 54003             | C1245             |
| EUSQ1152                    | EB854              | 1.5 | 1.10 | 230/115 | USQ1152             | B854                        | 54004             | C1246             |
| EUSQ1202                    | EB859              | 2   | 1.10 | 230/115 | USQ1202             | B859                        | 18254             | C1247             |
| EUSQ1252                    | EB840              | 2.5 | 1.04 | 230     | USQ1252             | B840                        | 13280             | C1335             |

## Square Flange - Full Rated Service Factors

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| ESQ1052                     | ASB846             | 1/2 | 1.95 | 230/115 | SQ1052              | B846                        | 14796             | C1304             |
| ESQ1072                     | ASB847             | 3/4 | 1.65 | 230/115 | SQ1072              | B847                        | 15815             | C1305             |
| ESQ1102                     | ASB848             | 1   | 1.65 | 230/115 | SQ1102              | B848                        | 12504             | C1306             |
| ESQ1152                     | ASB858             | 1.5 | 1.50 | 230/115 | SQ1152              | B858                        | 14728             | C1307             |
| ESQ1202                     | ASB748             | 2   | 1.30 | 230     | SQ1202              | B748                        | 10855             | C1308             |
|                             | ASB844             | 3   | 1.15 | 208-230 | SQ1302V1            | B2844                       | 16362             | C1449             |
|                             | ASB850             | 5   | 1.00 | 208-230 |                     | B1000                       |                   |                   |

## Square Flange - High Efficiency Design - Full Service Factor - Full Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| EQC1052                     | ASB845             | 1/2 | 1.90 | 230/115 | QC1052              |                             | 11357             | C1446             |
| EQC1072                     | ASB661             | 3/4 | 1.65 | 230/115 | QC1072              |                             | 16358             | C1499             |
| EQC1102                     | ASB841             | 1   | 1.65 | 230/115 | QC1102              |                             | 16359             | C1500             |

## Square Flange - High Efficiency Design - Low Service Factor - Up Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| EUQC1072                    |                    | 3/4 | 1.27 | 230/115 | UQC1072             |                             |                   |                   |
| EUQC1102                    |                    | 1   | 1.25 | 230/115 | UQC1102             |                             |                   |                   |
| EUQC1152                    |                    | 1.5 | 1.10 | 230/115 | UQC1152             |                             |                   |                   |

## extreme E Square Flange - Premium Energy Efficient - Full Rated Service Factors

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ASB845             | 1/2 | 1.90 | 208-230/115 | QC1052              | B845                        | 11357             | C1446             |
|                             | ASB661             | 3/4 | 1.65 | 208-230/115 | QC1072              | B661/B2661                  | 16358             | C1499             |
|                             | ASB841             | 1   | 1.67 | 208-230/115 | QC1102              | B841                        | 16359             | C1500             |
|                             | ASB842             | 1.5 | 1.47 | 208-230/115 | SQ1152              | B842/ B2842                 | 16360             | C1307             |
|                             | ASB843             | 2   | 1.30 | 208-230     | SQ1202              | B843/ B2843                 | 16361             | C1308             |
|                             | ASB844             | 3   | 1.15 | 208-230     | SQ1302V1            | B2844                       | 16362             | C1449             |
|                             | ASB850             | 5   | 1.00 | 208-230     |                     | B1000                       |                   |                   |

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# Replacement Motor Cross Reference

## extreme E<sup>®</sup> Square Flange - Full Service Factors - Two Speed

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP     | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|--------|------|---------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ASB2980            | 3/4/12 | 1.67 | 230     | SQS1072R            | B980                        | 12071             | C1310             |
|                             | EB981              | 3/4/12 | 1.67 | 115     | SQL1072R            | B981                        |                   | C1450             |
|                             | ASB2982            | 1/16   | 1.65 | 230     | SQS1102R            | B982                        | 12072             | C1311             |
|                             | ASB2983            | 1.5/25 | 1.47 | 230     | SQS1152R            | B983                        | 12073             | C1312             |
|                             | ASB2984            | 2/33   | 1.30 | 230     | SQS1202R            | B984                        | 12202             | C1313             |

## extreme E<sup>®</sup> Square Flange - Premium Efficient - Full Rate - Service Factor - Two Speed

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP     | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|--------|------|---------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ASB2980            | 3/4/12 | 1.67 | 230     |                     | B2980                       |                   |                   |
|                             | ASB2982            | 1/16   | 1.65 | 230     |                     | B2982                       |                   |                   |
|                             | ASB2983            | 1.5/25 | 1.47 | 230     |                     | B2983                       |                   |                   |
|                             | ASB2984            | 2.0/33 | 1.30 | 230     |                     | B2984                       |                   |                   |

## extreme E<sup>®</sup> Square Flange - Tristar™ Replacement - Full Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ET3205             | 1/2 | 1.98 | 208-230/115 |                     |                             |                   |                   |
|                             | ET3207             | 3/4 | 1.85 | 208-230/115 |                     |                             |                   |                   |
|                             | ET3210             | 1   | 1.85 | 208-230/115 |                     |                             |                   |                   |
|                             | ET3215             | 1.5 | 1.60 | 208-230/115 |                     |                             |                   |                   |
|                             | ET3220             | 2   | 1.35 | 208-230     |                     |                             |                   |                   |

## Square Flange - Tristar™ Replacement - Up Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
|                             | EB852              | 3/4 | 1.25 | 230/115 |                     | B852                        |                   | RB112             |
|                             | EB853              | 1   | 1.25 | 230/115 |                     | B853                        |                   | RB113             |
|                             | EB854              | 1.5 | 1.10 | 230/115 |                     | B854                        |                   | RB114             |
|                             | EB859              | 2   | 1.10 | 230/115 |                     | B859                        |                   | RB115             |
|                             | EB840              | 2.5 | 1.04 | 230     |                     | B840                        |                   | RB116             |
|                             | EB844              | 3   | 1.15 | 208-230 |                     |                             |                   |                   |

## Square Flange - Full Service Factor - Full Rated - Three Phase

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | EH491              | 1/2 | 1.90 | 208-230/460 | Q3052               | H491                        |                   | K8012             |
|                             | EH492              | 3/4 | 1.65 | 208-230/460 | Q3072               | H492                        |                   | K8013             |
|                             | EH635              | 1   | 1.65 | 208-230/460 | Q3102               | H635                        |                   | K8014             |
|                             | EH636              | 1.5 | 1.47 | 208-230/460 | Q3152               | H636                        |                   | K8015             |
|                             | EH637              | 2   | 1.30 | 208-230/460 | Q3202               | H637                        |                   | K8016             |
|                             | EH755              | 3   | 1.15 | 208-230/460 | Q3302V1             | H755                        |                   | K8017             |

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† All marks shown within this document are properties of their respective owners.



# Replacement Motor Cross Reference

## C-Flange - Threaded Shaft - Low Service Factors - Up Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| EUST1072                    | EB227              | 3/4 | 1.00 | 230/115 | UST1072             | B227SE                      | 54022             | C1321             |
| EUST1102                    | EB228              | 1   | 1.00 | 230/115 | UST1102             | B228SE                      | 54023             | C1318             |
| EUST1152                    | EB229              | 1.5 | 1.00 | 230/115 | UST1152             | B229SE                      | 54024             | C1319             |
| EUST1202                    | EB230              | 2   | 1.00 | 230/115 | UST1202             | B230SE                      | 12018             | C1320             |
| EUST1252                    | EB231              | 2.5 | 1.00 | 230     | UST1252             | B231SE                      | 12020             | C1149             |

## C-Flange - Keyed and Threaded - High Service Factors - Full Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ASB120             | 1/2 | 1.60 | 230/115 | SK1052              | B120                        | 13883             | C1093             |
| EST1052                     | ASB126             | 1/2 | 1.60 | 230/115 | ST1052              | B126                        | 18330             | C1098             |
|                             | ASB121             | 3/4 | 1.50 | 230/115 | SK1072              | B121                        | 14663             | C1094             |
| EST1072                     | ASB127             | 3/4 | 1.50 | 230/115 | ST1072              | B127                        | 15443             | C1099             |
|                             | ASB122             | 1   | 1.40 | 230/115 | SK1102              | B122                        | 12718             | C1095             |
| EST1102                     | ASB128             | 1   | 1.40 | 230/115 | ST1102              | B128                        | 14542             | C1100             |
|                             | ASB123             | 1.5 | 1.30 | 230/115 | SK1152              | B123                        | 52006             | C1096             |
| EST1152                     | ASB129             | 1.5 | 1.30 | 230/115 | ST1152              | B129                        | 52011             | C1101             |
|                             | ASB124             | 2   | 1.20 | 230     | SK1202              | B124                        | 52077             | C1097             |
| EST1202                     | ASB130             | 2   | 1.20 | 230     | ST1202              | B130                        | 52012             | C1102             |
|                             | ASB817             | 3   | 1.15 | 208-230 | SK1302V1            | B817                        |                   | C1439             |
|                             | ASB818             | 3   | 1.00 | 208-230 | ST1302V1            | B818                        |                   | C1440             |
|                             | ASB819             | 5   | 1.00 | 208-230 |                     |                             |                   |                   |

## C-Flange - High Efficiency Design - Full Service Factor - Full Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| ECT1052                     |                    | 1/2 | 1.60 | 230/115 | CT1052              |                             | 52008             | C1486             |
| ECT1072                     |                    | 3/4 | 1.50 | 230/115 | CT1072              |                             | 52009             | C1437             |
| ECT1102                     |                    | 1   | 1.40 | 230/115 | CT1102              |                             | 52010             | C1488             |



## C-Flange - Keyed and Threaded Shaft - Premium Energy Efficient - Full Rated Service Factors

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ASB656             | 1/2 | 1.60 | 208-230/115 | CK1052              | B656                        | 52003             | C1485             |
|                             | ASB657             | 1/2 | 1.60 | 208-230/115 | CT1052              | B657                        | 52008             | C1486             |
|                             | ASB634             | 3/4 | 1.50 | 208-230/115 | CK1072              | B634/B121                   | 52004             | C1436             |
|                             | ASB638             | 3/4 | 1.50 | 208-230/115 | CT1072              | B638                        | 52009             | C1437             |
|                             | ASB653             | 1   | 1.40 | 208-230/115 | CK1102              | B653                        | 52005             | C1487             |
|                             | ASB654             | 1   | 1.40 | 208-230/115 | CT1102              | B654                        | 52010             | C1488             |
|                             | ASB795             | 1.5 | 1.30 | 208-230/115 | SK1152              | B795                        | 52006             | C1096             |
|                             | ASB796             | 1.5 | 1.30 | 208-230/115 | ST1152              | B796                        | 52011             | C1101             |
|                             | ASB808             | 2   | 1.20 | 208-230     | SK1202              | B808                        | 52077             | C1097             |
|                             | ASB809             | 2   | 1.20 | 208-230     | ST1202              | B809                        | 52012             | C1102             |
|                             | ASB817             | 3   | 1.15 | 208-230     | SK1302V1            | B817                        | 12109             | C1439             |
|                             | ASB818             | 3   | 1.15 | 208-230     | ST1302V1            | B818                        | 17458             | C1440             |
|                             | ASB819             | 5   | 1.15 | 208-230     |                     |                             |                   |                   |
|                             | ASB116             | 4   | 1.25 | 208-230     |                     | B116                        |                   |                   |



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# Replacement Motor Cross Reference



## C-Flange - Keyed and Threaded Shaft - Full Rated Service Factors - TWO SPEED

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP     | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|--------|------|---------|---------------------|-----------------------------|-------------------|-------------------|
|                             | EB973              | 3/4.10 | 1.50 | 115     | STL1072R            | B973                        | 13541             | C1109             |
|                             | ASB2973H           | 3/4.10 | 1.50 | 230     | STS1072RV1          |                             |                   | C1110             |
|                             | ASB2975            |        |      |         | STS1102RV1          | B975                        | 14962             | C1111             |
|                             | ASB2977            | 1.5/18 | 1.30 | 230     | STS1152R            | B977                        | 15940             | C1112             |
|                             | ASB2979            | 2/25   | 1.30 | 230     | STS1202R            | B979                        | 19315             | C1443             |



## C-Flange - Hayward® Northstar™ Replacement - Threaded Shaft - Full & Up/Max Rated

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | ESN1072            | 3/4 | 1.85 | 208-230/115 |                     | SN1072                      |                   |                   |
|                             | EUSN1102           | 1   | 1.40 | 208-230/115 |                     | USN1102                     |                   |                   |
|                             | ESN1102            | 1   | 1.85 | 208-230/115 |                     | SN1102                      |                   |                   |
|                             | EUSN1152           | 1.5 | 1.25 | 208-230/115 |                     | USN1152                     |                   |                   |
|                             | ESN1152            | 1.5 | 1.60 | 208-230/115 |                     | SN1152                      |                   |                   |
|                             | EUSN1202           | 2   | 1.20 | 208-230/115 |                     | USN1202                     |                   |                   |
|                             | ESN1202            | 2   | 1.35 | 208-230     |                     | SN1202                      |                   |                   |
|                             | EUSN1302           | 3   | 1.20 | 208-230     |                     | USN1302                     |                   |                   |
|                             | ESN1302            | 3   | 1.60 | 208-230     |                     | SN1302                      |                   |                   |

## C-Flange - Keyed Shaft - Full Service Factors - Full Rated - Three Phase

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | EH281              | 1/2 | 1.60 | 208-230/460 |                     | H281                        |                   | K8000             |
|                             | EH450              | 3/4 | 1.50 | 208-230/460 |                     | H450                        |                   | K8002             |
|                             | EH513              | 1   | 1.40 | 208-230/460 |                     | H513                        |                   | K8004             |
|                             | EH616              | 1.5 | 1.30 | 208-230/460 |                     | H616                        |                   | K8006             |
|                             | EH704              | 2   | 1.20 | 208-230/460 |                     | H704                        |                   | K8008             |
|                             | EH740              | 3   | 1.15 | 208-230/460 |                     | H740                        |                   | K8010             |

## C-Flange - Threaded Shaft - Full Service Factors - Full Rated - Three Phase

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage     | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|-------------|---------------------|-----------------------------|-------------------|-------------------|
|                             | EH282              | 1/2 | 1.60 | 208-230/460 |                     | H282                        |                   | K8001             |
|                             | EH451              | 3/4 | 1.50 | 208-230/460 |                     | H451                        |                   | K8003             |
|                             | EH514              | 1   | 1.40 | 208-230/460 |                     | H514                        |                   | K8005             |
|                             | EH617              | 1.5 | 1.30 | 208-230/460 |                     | H617                        |                   | K8007             |
|                             | EH705              | 2   | 1.20 | 208-230/460 |                     | H705                        |                   | K8009             |
|                             | EH741              | 3   | 1.15 | 208-230/460 |                     | H741                        |                   | K8011             |



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## Replacement Motor Cross Reference

### Pool Cleaner - C-Face - Full Rated Service Factor

| 5.5 Diameter<br>Catalog Number | 56™<br>Catalog Number | HP  | SF   | Voltage | A.O. Smith<br>Cat. No. | A.O. Smith<br>Century Cat. No. | Franklin<br>Cat. No. | Marathon<br>Cat. No. |
|--------------------------------|-----------------------|-----|------|---------|------------------------|--------------------------------|----------------------|----------------------|
|                                | ASB625                | 3/4 | 1.50 | 230/115 | PL1072                 | B625                           |                      |                      |
|                                | ASB668                | 3/4 | 1.50 | 230/115 |                        | B668                           |                      |                      |

### Thru Bolt - 56 Frame - Single Speed

| 5.5 Diameter<br>Catalog Number | 56™<br>Catalog Number | HP | SF   | Voltage | A.O. Smith<br>Cat. No. | A.O. Smith<br>Century Cat. No. | Franklin<br>Cat. No. | Marathon<br>Cat. No. |
|--------------------------------|-----------------------|----|------|---------|------------------------|--------------------------------|----------------------|----------------------|
|                                | TS605                 | 3  | 1.00 | 230     |                        | B237                           |                      |                      |
|                                | TS606                 | 4  | 1.00 | 230     |                        | B238                           |                      |                      |

### Thru Bolt - 56 Frame - Two Speed - Soft Start

| 5.5 Diameter<br>Catalog Number | 56™<br>Catalog Number | HP      | SF   | Voltage | A.O. Smith<br>Cat. No. | A.O. Smith<br>Century Cat. No. | Franklin<br>Cat. No. | Marathon<br>Cat. No. |
|--------------------------------|-----------------------|---------|------|---------|------------------------|--------------------------------|----------------------|----------------------|
|                                | TT502                 | 1.5/.18 | 1.00 | 230     |                        | B233 / B2233 (new)             |                      |                      |
|                                | TT503                 | 2.0/.25 | 1.00 | 230     |                        | B234 / B2234 (new)             |                      |                      |
|                                | TT505                 | 3.0/.38 | 1.00 | 230     |                        | B235 / B2235 (new)             |                      |                      |
|                                | TT506                 | 4.0/.50 | 1.00 | 230     |                        | B236                           |                      |                      |

### Thru Bolt - 48 Frame - Single Speed

| 5.5 Diameter<br>Catalog Number | 56™<br>Catalog Number | HP  | SF   | Voltage | A.O. Smith<br>Cat. No. | A.O. Smith<br>Century Cat. No. | Franklin<br>Cat. No. | Marathon<br>Cat. No. |
|--------------------------------|-----------------------|-----|------|---------|------------------------|--------------------------------|----------------------|----------------------|
| AGL50FL1                       |                       | 1/2 | 1.00 | 115     | CBT2052                | BN23 / BN23V1 (new)            | 13719                |                      |
| AGL75FL1                       |                       | 3/4 | 1.00 | 115     | CBT2072                | BN24 / BN24V1 (new)            | 18889                | H909                 |
| AGH75FL1                       |                       | 3/4 | 1.00 | 230     |                        |                                |                      |                      |
| AGL10FL1                       |                       | 1   | 1.00 | 115     | CBT2102                | BN25 / BN25V1 (new)            | 16436                | H910                 |
| AGH10FL1                       |                       | 1   | 1.00 | 230     |                        |                                |                      |                      |
| AGD15FL1                       |                       | 1.5 | 1.00 | 230/115 | TBT1152D               | BN35SS                         |                      | C1901                |
| SPH20FLC1                      |                       | 2   | 1.00 | 230     |                        | BN40 / BN40SS (new)            |                      |                      |
| SPH20FL1                       |                       | 2   | 1.00 | 230     |                        | 186097 / BN40SS                | 17257                | C1456                |
| SPH25FL1                       |                       | 2.5 | 1.00 | 230     |                        |                                |                      |                      |
| SPH30FL1                       |                       | 3   | 1.00 | 230     |                        | BN41                           |                      |                      |

### Thru Bolt - 48 Frame - Two Speed - Soft Start

| 5.5 Diameter<br>Catalog Number | 56™<br>Catalog Number | HP      | SF   | Voltage | A.O. Smith<br>Cat. No. | A.O. Smith<br>Century Cat. No. | Franklin<br>Cat. No. | Marathon<br>Cat. No. |
|--------------------------------|-----------------------|---------|------|---------|------------------------|--------------------------------|----------------------|----------------------|
| AGL50FL2                       |                       | 1/2/.06 | 1.00 | 115     |                        |                                | 18264                |                      |
| AGL75FL2                       |                       | 3/4/.10 | 1.00 | 115     | CBS2072                | BN36                           | 12562                | C1902                |
| AGL10FL2S                      |                       | 1.0/.12 | 1.00 | 115     | CBS2102                | BN37 / BN38 / BN37V1 (new)     | 15698/15700          | C1903                |
| AGL15FL2CS                     |                       | 1.5/.18 | 1.00 | 115     |                        | BN50 / BN50V1 (new)            |                      |                      |
| SPL15FL2S                      |                       | 1.5/.18 | 1.00 | 115     |                        | BN60                           | 41000                |                      |
| AGH15FL2CS                     |                       | 1.5/.18 | 1.00 | 230     |                        | BN34 / BN34V1 (new)            | 41001                | C1326                |
| SPH20FL2CS                     |                       | 2.0/.25 | 1.00 | 230     |                        | BN51                           |                      |                      |
| SPH20FL2S                      |                       | 2.0/.25 | 1.00 | 230     |                        | BN61                           | 17525                | C1327                |
| SPH25FL2S                      |                       | 2.5/.33 | 1.00 | 230     |                        |                                |                      |                      |
| SPH30FL2S                      |                       | 3.0/.38 | 1.00 | 230     |                        | BN62                           | 42005                |                      |



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# Replacement Motor Cross Reference

## Above Ground Pool - 48 Frame - Single Speed (Thru bolt less base)

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| AGL75FL1NB                  |                    | 3/4 | 1.00 | 115     |                     |                             |                   |                   |
| AGL10FL1NB                  |                    | 1.0 | 1.00 | 115     |                     |                             |                   |                   |

## Above Ground Pool - 48 Frame - Single Speed - 50Hz - CE Certified

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| AGH10FL150                  |                    | 1.0 | 1.00 | 220-240 |                     | BN33                        |                   |                   |

## Above Ground Pool - EZ48 Frame - Single Speed - 60Hz - 1.5 Compartment

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| EZBN23                      |                    | 1/2 | 1.00 | 115     | CBT2052             | BN23 / BN23V1 (new)         |                   |                   |
| EZBN24                      |                    | 3/4 | 1.00 | 115     | CBT2072             | BN24 / BN24V1 (new)         |                   |                   |
| EZBN25                      |                    | 1.0 | 1.00 | 115     | CBT2102             | BN25 / BN25V1 (new)         |                   |                   |
| EZBV35                      |                    | 1.5 | 1.00 | 115     |                     | BV35 / BV35V1 (new)         |                   |                   |
| EZBN35                      |                    | 1.5 | 1.00 | 230/115 | TBT1152D            | BN35/BN35SS                 |                   |                   |

## Above Ground Pool - EZ48 Frame - Two Speed - 60Hz - 1.5 Compartment

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP      | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|---------|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| EZBN36                      |                    | 3/4/1.0 | 1.00 | 115     | CBS2072             | BN36                        |                   |                   |
| EZBN37                      |                    | 1.0/1.2 | 1.00 | 115     | CBS2102             | BN37 / BN37V1 (new)         |                   |                   |
| EZBN50                      |                    | 1.5/1.8 | 1.00 | 115     | TBS1152SV1          | BN50 / BN50V1 (new)         |                   |                   |

## Above Ground Pool - Hoffinger Replacement

| 5.5 Diameter Catalog Number | 56™ Catalog Number | HP  | SF   | Voltage | A.O. Smith Cat. No. | A.O. Smith Century Cat. No. | Franklin Cat. No. | Marathon Cat. No. |
|-----------------------------|--------------------|-----|------|---------|---------------------|-----------------------------|-------------------|-------------------|
| AGL10FL1H1                  |                    | 1   | 1.00 | 115     | ODB1102V1           | BV91                        |                   |                   |
| AGL10FL1H2                  |                    | 1   | 1.00 | 115     | ODB1102             | BV90                        |                   | H911              |
| AGL15FL1H2                  |                    | SPL | 1.00 | 115     |                     |                             |                   |                   |



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## Replacement Motor Cross Reference

### Variable Speed - 56 Frame - Integrated Timer - Title 20 Compliant

#### Square Flange

| Catalog Number | AOS / Century Stock No. | Mounting | HP              | SF  | Voltage |
|----------------|-------------------------|----------|-----------------|-----|---------|
| EVSS15-NS      | N/A                     | 56-1     | 1/2 thru 1/5 HP | 1.5 | 230     |

#### C-Face

| Catalog Number | AOS / Century Stock No. | Mounting | HP       | SF  | Voltage |
|----------------|-------------------------|----------|----------|-----|---------|
| EVSJ15-NS      | N/A                     | 56J      | 1/2 then | 1.5 | 230     |

### Two Speed with Integrated Timer - 56 Frame - Title 20 Compliant

#### Square Flange - Two Speed with Integrated Timer - High Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP        | SF   | Voltage |
|----------------|-------------------------|----------|-----------|------|---------|
| ASB2980T       | N/A                     | 56Y      | 3/4 / .10 | 1.67 | 230     |
| ASB2982T       | N/A                     | 56Y      | 1.0 / .12 | 1.65 | 230     |
| ASB2983T       | N/A                     | 56Y      | 1.5 / .20 | 1.47 | 230     |
| ASB2984T       | N/A                     | 56Y      | 2.0 / .25 | 1.3  | 230     |

#### C-Face - Two Speed with Integrated Timer - High Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP        | SF  | Voltage |
|----------------|-------------------------|----------|-----------|-----|---------|
| ASB2973HT      | N/A                     | 56J      | 3/4 / .10 | 1.5 | 230     |
| ASB2975T       | N/A                     | 56J      | 1.0 / .12 | 1.4 | 230     |
| ASB2977T       | N/A                     | 56J      | 1.5 / .20 | 1.3 | 230     |
| ASB2979T       | N/A                     | 56J      | 2.0 / .25 | 1.2 | 230     |

### Two Speed Motor Only - 56 Frame - Title 20 Compliant

#### Square Flange - Two Speed - High Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP        | SF   | Voltage |
|----------------|-------------------------|----------|-----------|------|---------|
| ASB2980        | B2980                   | 56Y      | 3/4 / .10 | 1.67 | 230     |
| ASB2982        | B2982                   | 56Y      | 1.0 / .12 | 1.65 | 230     |
| ASB2983        | B2983                   | 56Y      | 1.5 / .20 | 1.47 | 230     |
| ASB2984        | B2984                   | 56Y      | 2.0 / .25 | 1.3  | 230     |

#### C-Face - Two Speed - High Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP        | SF  | Voltage |
|----------------|-------------------------|----------|-----------|-----|---------|
| ASB2973H       |                         | 56J      | 3/4 / .10 | 1.5 | 230     |
| ASB2975        |                         | 56J      | 1.0 / .12 | 1.4 | 230     |
| ASB2977        |                         | 56J      | 1.5 / .20 | 1.3 | 230     |
| ASB2979        | B2979                   | 56J      | 2.0 / .25 | 1.2 | 230     |



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# Replacement Motor Cross Reference

## Totally Enclosed Fan Cooled

### Square Flange - Totally Enclosed Fan Cooled - Premium Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP  | SF   | Voltage     |
|----------------|-------------------------|----------|-----|------|-------------|
| ETE638         | N/A                     | 56J      | 3/4 | 1.50 | 208-230/115 |
| ETE654         | N/A                     | 56J      | 1   | 1.40 | 208-230/115 |
| ETE796         | N/A                     | 56J      | 1.5 | 1.30 | 208-230/115 |
| ETE809         | N/A                     | 56J      | 2   | 1.20 | 208-230     |

### C-Face - Totally Enclosed Fan Cooled - Premium Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP  | SF   | Voltage     |
|----------------|-------------------------|----------|-----|------|-------------|
| ETE661         | N/A                     | 56Y      | 3/4 | 1.67 | 208-230/115 |
| ETE841         | N/A                     | 56Y      | 1   | 1.65 | 208-230/115 |
| ETE842         | N/A                     | 56Y      | 1.5 | 1.47 | 208-230/115 |
| ETE843         | N/A                     | 56Y      | 2   | 1.30 | 208-230     |

## Pentair®† EQ Pump Series™ Replacement Pool Motors

### Close Coupled Pump - Premium Efficient - Full Service Factor - Full Rated

| Catalog Number | AOS / Century Stock No. | Mounting | HP  | SF   | Voltage     |
|----------------|-------------------------|----------|-----|------|-------------|
| EEQK500        | N/A                     | 182JMZ   | 5   | 1.15 | 208-230/460 |
| EEQK750        | N/A                     | 184JMZ   | 7.5 | 1.15 | 208-230/460 |
| EEQK1000       | N/A                     | 213JMZ   | 10  | 1.15 | 208-230/460 |
| EEQK1500       | N/A                     | 215JMZ   | 15  | 1.15 | 208-230/460 |
| EEQ500         | N/A                     | 184JMZ   | 5   | 1.15 | 230         |
| EEQ750         | N/A                     | 213JMZ   | 7.5 | 1.15 | 230         |



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# Residential Water System Pump Motors

For use on jet pumps, booster pumps, lawn sprinkler pumps, and other centrifugal pump applications.



**Horsepower:** 1/2 – 3 HP

**Phase:** Single Phase

**Torque:** Capacitor Start electrical designs utilized for superior torque even in the most difficult starting conditions

**Voltage Selector Switch:** Easy to use voltage selector switch for confidence in field wiring (Found on motors with catalog numbers ending in “-2V” and “UPR”)

**Mounting Options:** NEMA<sup>®†</sup> 56J, and Square Flange. The Square Flange mounting face incorporates a five-point surface, which supplies extra pump support

**Enclosure:** Open Dripproof (ODP)

**Compartments:** Two-Compartment constructions

**Bearings:** All Ball Bearing construction. Double Shielded ball bearings on both motor ends

**Ease of Impeller Assembly or Removal:** Conveniently accessible shaft flats or screw driver slots to hold onto the motor shaft

**Shaft Extensions:** Corrosion-resistant 303 stainless steel shaft extensions on U.S. MOTORS<sup>®</sup> brand two-compartment construction motors.

**Agency:** UL<sup>®†</sup> Recognized and CSA<sup>®†</sup> Certified



## Water Systems Products

Improved technology and compact design advances field-friendly features to a new level.

- New stamped steel dome cover with captive fasteners
- Easy to access shaft flats to hold shaft during pump assembly and disassembly
- New angled surface terminal board for greater top-down visibility. The terminals are aligned properly with the conduit opening
- One of the industry's most convenient voltage selection devices



<sup>†</sup> All marks shown within this document are properties of their respective owners.

# Special Application Single Phase, Open Dripproof (ODP) Jet Pump, Square Flange & C-Face Capacitor Start



## APPLICATIONS:

For jet pumps, booster pumps, centrifugal pumps, lawn sprinkler pumps.

## FEATURES:

- 303 Stainless Steel Shaft
- C-Face: 7/16-20 UNF2A Thread
- Square Flange: 1/2-20 UNC-2A Thread
- Ball Bearings (Locked Drive End Bearing)
- Continuous Duty
- 60 Hertz
- EZ-Access™ Motor Cover
- 40°C Ambient
- Automatic Reset Thermal Overload Protector
- Round Frame (Without Base), NEMA® 56C C-Face or Square Flange Mounting
- Power Leads Supplied For Proper Connection To Pressure Switch
- Voltage Selector Switch (Catalog Numbers Ending With "-2V" and "UPR")

## C-Face, Two Compartment Product, EZ-Access™ Motors

| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/2   | 3600 | 115/230 | 56J   | *JJ0502-2V     | \$234 | DS-3FJP         | 1.60 | 13.0              | 25             | 9.6/4.8        |       |
| 3/4   | 3600 | 115/230 | 56J   | *JJ0752-2V     | \$272 | DS-3FJP         | 1.50 | 13.8              | 22             | 12.8/6.4       |       |
| 1     | 3600 | 115/230 | 56J   | *JJ1002-2V     | \$313 | DS-3FJP         | 1.40 | 14.0              | 23             | 13.4/6.7       |       |
| 1 1/2 | 3600 | 115/230 | 56J   | *JJ1502-2V     | \$350 | DS-3FJP         | 1.30 | 14.5              | 27             | 14.0/7.0       | 18    |
| 2     | 3600 | 230     | 56J   | *JJ2002-2      | \$400 | DS-3FJP         | 1.20 | 14.5              | 27             | 8.6            | 18    |

## Square Flange, Two Compartment Product, EZ-Access™ Motors

| HP    | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-------|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/2   | 3600 | 115/230 | 48Y   | JS0502-2V      | \$239 | DS-3FJP         | 1.90 | 11.7              | 19             | 8.4/4.2        |       |
| 3/4   | 3600 | 230/115 | 48Y   | JS0752-2V      | \$277 | DS-3FJP         | 1.65 | 13.0              | 19             | 5.8/11.6       |       |
| 1     | 3600 | 115/230 | 56YZ  | JS1002-2V      | \$319 | DS-3FJP         | 1.65 | 13.0              | 23             | 13.6/6.8       |       |
| 1 1/2 | 3600 | 115/230 | 48Y   | JS1502-2V      | \$362 | DS-3FJP         | 1.50 | 13.5              | 27             | 14.8/7.4       | 18    |
| 2     | 3600 | 230     | 56YZ  | JS2002-2       | \$415 | DS-3FJP         | 1.30 | 13.5              | 28             | 8.6            | 18    |

Note 18 Incorporates Run Capacitor

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# Elevator and Gate & Door Motors



## Submersible and Dry Hydraulic Elevator Motors

**Horsepower:** 3 through 125 HP  
**Frame Sizes:** 90 through 404T  
**Phase:** Three Phase  
**RPM:** 3600 or 1800 RPM  
**Voltage:** 200, 208-230/460, 230/460, 460, 575  
**Enclosure:** Open Dripproof (ODP) on Dry Hydro  
**Service Factor:** 1.00 SF or greater  
**Insulation:** Class B or F Insulation  
**Efficiency:** Standard Efficient  
**Nameplate:** "CE" Mark on nameplate  
on Dry Hydro (180 Frame or larger)  
**Agency:** UL<sup>®†</sup> Recognized and CSA<sup>®†</sup> Certified



## Commercial Gate and Door Motors

**Horsepower:** 1/3 through 1 HP  
**Phase:** Single and Three Phase  
**RPM:** Single Speed 1725 RPM, Two Speed 1625/1325 RPM  
**Voltage:**

- Three Phase, 208/230-460
- Single Phase, 115/208-230
- Gate: Single Phase, Two Speed, 115 only

**Enclosure:**

- Totally Enclosed Fan Cooled (TEFC) Three Phase
- Open Dripproof (ODP) Single Phase

**Construction:** Rolled steel frame  
**Mounting:**

- Rigid Mount
- Resilient Mount
- C-Face Mount

**Bearings:** Permanently lubricated ball bearings



<sup>†</sup> All marks shown within this document are properties of their respective owners.

## Special Application Three Phase Submersible Elevator Motors Z-Flange & L32 Flange



### APPLICATIONS:

Z-Flanged motors are suitable for use in elevators in low rise buildings using ALLWEILER® pumps (SUB 140, 210 & 280) or IMO pumps (3SIC-187, 3SIC-200, 3SIC-218, 3SIC-250 & 4SIC-275). L32 Flanged motors for ALLWEILER® pumps (SUA 140, 210, 280 & 440). Compatibility current at time of publication.

### FEATURES:

- Class F Insulation
- Zinc Plated Frame, 32 MM Shaft, Lifting Provisions On Brackets
- Stainless Steel Nameplate On Motor & Mylar For Wall Mount
- 70°C Thermostat Located On Motor Frame
- Single Ball Bearing Design To Fit Most ALLWEILER® & IMO Sub. Pumps
- 112" External Leads (Butt Splices At Approx. 12" & 47" From Housing)
- Suitable for Wye-Delta Starting
- Intermittent Duty (Rated 80 Starts/Hour In 50°C Oil or 120 Starts/Hour In 40°C Oil)
- CSA® Certified (#LR39413) & UL® Component Recognized (#E51488)

| HP | RPM  | Voltage | Frame  | Catalog Number | List    | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|----|------|---------|--------|----------------|---------|-----------------|------|-------------------|----------------|----------------|-------|
| 15 | 3600 | 200     | 160ZBS | EZ15S1HZ       | \$1,739 | DS-3IM          | 1.00 | 14.1              | 101            | 52             | Z     |
|    | 3600 | 230/460 | 160ZBS | EZ15S1BZ       | \$1,739 | DS-3IM          | 1.00 | 14.1              | 101            | 45.2/22.6      | Z     |
|    | 3600 | 575     | 160ZBS | EZ15S1GZ       | \$1,739 | DS-3IM          | 1.00 | 14.1              | 101            | 18.1           | Z     |
| 20 | 3600 | 200     | 160ZBS | EZ20S1HZ       | \$1,780 | DS-3IM          | 1.00 | 14.1              | 102            | 72             | Z     |
|    | 3600 | 230/460 | 160ZBS | EZ20S1BZ       | \$1,780 | DS-3IM          | 1.00 | 14.1              | 100            | 62/31          | Z     |
|    | 3600 | 575     | 160ZBS | EZ20S1GZ       | \$1,780 | DS-3IM          | 1.00 | 14.1              | 110            | 24.6           | Z     |
| 25 | 3600 | 200     | 160ZBS | EZ25S1HZ       | \$1,912 | DS-3IM          | 1.00 | 14.1              | 100            | 82             | Z     |
|    | 3600 | 230/460 | 160ZBS | EZ25S1BZ       | \$1,912 | DS-3IM          | 1.00 | 14.1              | 132            | 70/35          | Z     |
|    | 3600 | 575     | 160ZBS | EZ25S1GZ       | \$1,912 | DS-3IM          | 1.00 | 14.1              | 108            | 28.3           | Z     |
| 30 | 3600 | 200     | 160ZBS | EZ30S1HZ       | \$2,144 | DS-3IM          | 1.00 | 14.1              | 115            | 100            | Z     |
|    | 3600 | 230/460 | 160LCS | E30S1BZ        | \$2,144 | DS-3IM          | 1.00 | 14.1              | 114            | 84/42          | L32   |
|    | 3600 | 230/460 | 160ZBS | EZ30S1BZ       | \$2,144 | DS-3IM          | 1.00 | 14.1              | 111            | 84/42          | Z     |
|    | 3600 | 575     | 160ZBS | EZ30S1GZ       | \$2,144 | DS-3IM          | 1.00 | 14.1              | 109            | 35             | Z     |
| 40 | 3600 | 200     | 160LCS | E40S1HZ        | \$2,415 | DS-3IM          | 1.00 | 17.4              | 113            | 121            | L32   |
|    | 3600 | 200     | 160ZBS | EZ40S1HZ       | \$2,415 | DS-3IM          | 1.00 | 17.5              | 144            | 121            | Z     |
|    | 3600 | 230/460 | 160LCS | E40S1BZ        | \$2,415 | DS-3IM          | 1.00 | 17.4              | 160            | 106/53         | L32   |
|    | 3600 | 230/460 | 160ZBS | EZ40S1BZ       | \$2,415 | DS-3IM          | 1.00 | 17.5              | 150            | 106/53         | Z     |
|    | 3600 | 575     | 160LCS | E40S1GZ        | \$2,415 | DS-3IM          | 1.00 | 17.4              | 142            | 42             | L32   |
|    | 3600 | 575     | 160ZBS | EZ40S1GZ       | \$2,415 | DS-3IM          | 1.00 | 17.5              | 160            | 42             | Z     |
| 50 | 3600 | 200     | 160LCS | E50S1HZ        | \$3,534 | DS-3IM          | 1.00 | 17.4              | 157            | 148            | L32   |
|    | 3600 | 200     | 160ZBS | EZ50S1HZ       | \$3,534 | DS-3IM          | 1.00 | 17.5              | 157            | 148            | Z     |
|    | 3600 | 230/460 | 160LCS | E50S1BZ        | \$3,534 | DS-3IM          | 1.00 | 17.4              | 165            | 130/65         | L32   |
|    | 3600 | 230/460 | 160ZBS | EZ50S1BZ       | \$3,534 | DS-3IM          | 1.00 | 17.5              | 150            | 130/65         | Z     |
|    | 3600 | 575     | 160LCS | E50S1GZ        | \$3,534 | DS-3IM          | 1.00 | 17.4              | 112            | 52             | L32   |
|    | 3600 | 575     | 160ZBS | EZ50S1GZ       | \$3,534 | DS-3IM          | 1.00 | 17.5              | 150            | 52             | Z     |

Note L32 L32 Flange  
Note Z Z Flange

For Loose L32 Flange for 160ZBS Frames, Ask For P/N 972798-000  
For Loose Z Flange for 160LCS Frames, Ask For P/N 964418-000

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# Special Application Three Phase, Open Dripproof (ODP) Elevator Motor, Dry Hydraulic Motor



## APPLICATIONS:

For elevators where dry hydraulic motors are required, usually five stories or less.

## FEATURES:

- CSA<sup>®†</sup> Certified and UL<sup>®†</sup> Component Recognized
- 1800 RPM
- NEMA<sup>®†</sup> Design B
- 80 Starts Per Hour (100 Starts Per Hour With De-rate in HP)
- F1 Assembly
- 60 Hertz
- Class F Insulation
- 1.00 Service Factor
- Intermittent Duty Rated For Operation in a 40°C Ambient Temperature
- Ball Bearing Design
- 72" Lead Length

| HP  | RPM  | Voltage | Frame | Catalog Number | List     | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|-------|
| 20  | 1800 | 200     | 254T  | DH20S2HF       | \$2,586  | DS-3ID          | 1.00 | 22.6              | 150            | 58             |       |
|     | 1800 | 230/460 | 254T  | DH20S2BF       | \$2,586  | DS-3ID          | 1.00 | 22.6              | 162            | 52/25.9        |       |
| 25  | 1800 | 200     | 256T  | DH25S2HF       | \$3,741  | DS-3ID          | 1.00 | 23.2              | 160            | 72             |       |
|     | 1800 | 230/460 | 256T  | DH25S2BF       | \$3,741  | DS-3ID          | 1.00 | 23.2              | 172            | 65/32          |       |
| 30  | 1800 | 200     | 284T  | DH30S2HF       | \$4,508  | DS-3ID          | 1.00 | 24.9              | 225            | 84             |       |
|     | 1800 | 230/460 | 284T  | DH30S2BF       | \$4,508  | DS-3ID          | 1.00 | 24.9              | 237            | 73/36          |       |
| 40  | 1800 | 200     | 286T  | DH40S2HF       | \$5,247  | DS-3ID          | 1.00 | 24.9              | 250            | 110            |       |
|     | 1800 | 230/460 | 286T  | DH40S2BF       | \$5,247  | DS-3ID          | 1.00 | 24.9              | 262            | 96/48          |       |
| 50  | 1800 | 200     | 324T  | DH50S2HF       | \$6,482  | DS-3ID          | 1.00 | 27.3              | 420            | 133            |       |
|     | 1800 | 230/460 | 324T  | DH50S2BF       | \$6,482  | DS-3ID          | 1.00 | 27.3              | 451            | 116/58         |       |
| 60  | 1800 | 200     | 326T  | DH60S2HF       | \$7,794  | DS-3ID          | 1.00 | 27.3              | 460            | 160            |       |
|     | 1800 | 230/460 | 326T  | DH60S2BF       | \$7,794  | DS-3ID          | 1.00 | 27.3              | 491            | 139/69         |       |
| 75  | 1800 | 230/460 | 364T  | DH75S2BF       | \$9,587  | DS-3ID          | 1.15 | 28.7              | 580            | 185/92         |       |
| 100 | 1800 | 230/460 | 365T  | DH100S2BF      | \$11,739 | DS-3ID          | 1.00 | 29.7              | 631            | 235/118        |       |
| 125 | 1800 | 230/460 | 404T  | DH125S2BF      | \$12,800 | DS-3ID          | 1.00 | 32.6              | 763            | 288/144        |       |

† All marks shown within this document are properties of their respective owners.



# Special Application Commercial Gate Single Phase, Permanent Split Capacitor Open Dripproof (ODP)

## APPLICATIONS:

For gate openers, hoists and most medium start reversing applications.

## FEATURES:

- 40°C Ambient
  - 1.0 Service Factor
  - Reversible Rotation
  - 115 Volt, 60 Hertz
  - Permanent Lubricated Ball Bearings
  - 3 Lead Connection
  - Manual Reset Thermal Overload Protector
  - Terminal Board Connections Without Motor Switch
  - Lower Inrush And Operating Currents
  - Modest Starting Torque
  - Allows Frequent Starts
  - Continuous Duty Capacitor
  - Continuous Duty/Intermittent Duty (1 HP Intermittent)

| HP  | RPM  | Voltage | Frame | Catalog Number | List  | Discount Symbol | SF   | "C" Dim. (inches) | Ship Wt. (lbs) | Full Load Amps | Notes |
|-----|------|---------|-------|----------------|-------|-----------------|------|-------------------|----------------|----------------|-------|
| 1/3 | 1800 | 115     | 56    | D13ARM2N       | \$499 | DS-3FMP         | 1.00 | 10.4              | 19             | 3.9 & 4.2      | 23    |
|     | 1800 | 115     | 56    | D13ARM2N9      | \$524 | DS-3FMP         | 1.00 | 10.8              | 20             | 3.9/4.2        | 23,35 |
| 1/2 | 1800 | 115     | 56    | D12ARM2N       | \$555 | DS-3FMP         | 1.00 | 9.4               | 16             | 5              | 23    |
|     | 1800 | 115     | 56    | D12ARM2N9      | \$587 | DS-3FMP         | 1.00 | 10.8              | 20             | 5.0/5.7        | 23,35 |
| 3/4 | 1800 | 115     | 56    | D34ARM2N       | \$667 | DS-3FMP         | 1.00 | 11.9              | 22             | 8              | 23    |
|     | 1800 | 115     | 56    | D34ARM2N9      | \$698 | DS-3FMP         | 1.00 | 12.3              | 22             | 8/8.3          | 23,35 |

Note 23    Manual Reset Thermal Protector Overload  
 Note 35    Resilient Base

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# EVERY DROP COUNTS.

**ACCU-Series™ Pump Panels for Agricultural Irrigation**  
**U.S. MOTORS®** brand inverter duty solutions. One company. One point of responsibility. Motor match drive warranty.



**We Build More Than Just Motors.  
We Build Solutions.**

**Nidec**

NIDEC MOTOR CORPORATION



# Complete Solutions. Rapid Delivery.

DS-AGPS

Nidec Motor Corporation provides rapid delivery of the most popular panels from stock with the ability to quickly configure panels with pre-engineered options.

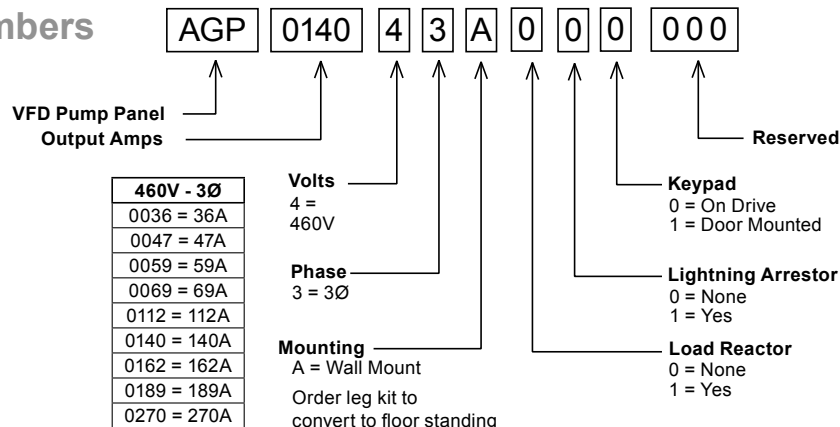
## Standard ACCU-Series Pump Panel Features

- NEMA 3R enclosure
- UL 508 listed
- 50 degrees C rated operation
- 460V, 3-Phase
- Ventilating fans with mesh filters
- Circuit breaker disconnect
- HOA switch
- Door mounted speed potentiometer
- Pilot light and door lock
- Line reactor

| 460V - 3 Phase Input |                           |             |                  |            |
|----------------------|---------------------------|-------------|------------------|------------|
| Motor                |                           | Drive Panel |                  |            |
| HP                   | Catalog Number            | Amps        | Catalog Number   | Panel List |
| 30                   | HO30V2BLF                 | 36          | AGP003643A000000 | \$11,266   |
| 40                   | HO40V2BLG<br>HO40V2BLF    | 47          | AGP004743A000000 | \$12,526   |
| 50                   | HO50V2BLG                 | 59          | AGP005943A000000 | \$14,019   |
| 60                   | HO60V2SLG                 | 69          | AGP006943A000000 | \$18,131   |
| 75                   | HO75V2SLG                 | 112         | AGP011243A000000 | \$19,466   |
| 100                  | HO100V2SLG<br>HO100V2SLGX | 140         | AGP014043A000000 | \$22,128   |
| 125                  | HO125V2SLG<br>HO125V2SLGX | 162         | AGP016243A000000 | \$24,301   |
| 150                  | HO150V2SLG<br>HO150V2SLGX | 189         | AGP018943A000000 | \$27,842   |
| 200                  | HO200V2SLH<br>HO200V2SLHX | 270         | AGP027043B000000 | \$37,313   |
| 250                  | HO250V2SLH<br>HO250V2SLHX | 335         | AGP033543B000000 | \$44,119   |
| 300                  | HO300V2SLH<br>HO300V2SLHX | 370         | AGP037043B000000 | \$52,572   |
| 350                  | HO350V2SLH<br>HO350V2SLHX | 459         | AGP045943B000000 | \$66,047   |
| 400                  | HO400V2SLH<br>HO400V2SLHX |             |                  |            |
| 450                  | HO450V2SLH<br>HO450V2SLHX | 580         | AGP058043B000000 | \$86,643   |
| 500                  | HO500V2SLH<br>HO500V2SLHX |             |                  |            |
| 600                  | HO600V2SLJX               |             |                  |            |
| 600                  | HO600V2SLJX               | 680         | AGP068043B000000 | \$107,833  |

| Options                               |                           |                    |                           |                       |                          |
|---------------------------------------|---------------------------|--------------------|---------------------------|-----------------------|--------------------------|
| Floor Standing<br>Leg Kits<br>12" 24" | Output<br>Load<br>Reactor | Surge<br>Protector | Door<br>Mounted<br>Keypad | 3-Contactor<br>Bypass | Panel<br>Space<br>Heater |
| AGPLEG12A<br>\$350                    | AGPLEG24A<br>\$375        | \$696              |                           | \$2,247               |                          |
|                                       |                           | \$732              |                           | \$2,695               |                          |
| AGPLEG12B<br>\$350                    | AGPLEG24B<br>\$375        | \$986              |                           | \$2,695               |                          |
|                                       |                           | \$1,000            |                           | \$2,695               |                          |
|                                       |                           | \$1,230            |                           | \$2,888               |                          |
|                                       |                           | \$1,330            |                           | \$4,985               |                          |
|                                       |                           | \$1,510            |                           | \$5,995               |                          |
| Included                              | Not<br>Available          | \$2,068            |                           | \$5,995               |                          |
|                                       |                           | \$2,446            | \$475                     | \$12,579              | \$550                    |
|                                       |                           | \$3,700            |                           | \$14,143              |                          |
|                                       |                           | \$4,962            |                           | \$14,403              |                          |
|                                       |                           | \$6,446            |                           | \$22,033              |                          |
|                                       |                           | \$7,900            |                           | \$27,572              |                          |
|                                       |                           | \$9,788            |                           | \$31,388              |                          |

## Ordering Part Numbers and Options



**Nidec**  
NIDEC MOTOR CORPORATION

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Phone: 888-637-7333 | Fax: 866-422-7758

www.usmotors.com



# Vertical Motors

For use on turbine, mix flow and propeller pumps for the agriculture, turf, municipal and industrial markets.



**Horsepower:** 3 through 600 HP

**Phase:** Single & Three Phase

**RPM:** 3600, 1800 or 1200

**Voltage:**

- Single Phase, 115/230 or 230 Volts
- Three Phase, 230/460 or 460 Volts
- Intl. Duty, 220/380-440, 415 or 575 Volts

**Efficiency:**

- Standard
- Energy Efficient
- Premium Efficient/Inverter Duty

**Enclosure:**

- Weather Protected Type I (WPI)
- Totally Enclosed, Fan Cooled (TEFC)

**Mounting:** P-Base

**Thrust:** Normal, High & Extra High

**Thrust Bearing Lubrication:**

- Normal Thrust - Grease
- High Thrust
  - Up to 280 frame - Grease
  - 320 frame and larger - Oil
- Extra High Thrust
  - 320 frame and larger - Oil

**Guide Bearing Lubrication:** Grease

**Inverter Duty:** Meets NEMA<sup>®†</sup> MG1 Part 31

**Agency:** UL<sup>®†</sup> Recognized and CSA<sup>®†</sup> Certified



The U.S. MOTORS<sup>®</sup> brand Vertical HOLLOSHAFT<sup>®</sup> motor has been a standard in the pump industry since 1922.

Today, when it comes to vertical motor experience and quality, one brand stands alone – U.S. MOTORS<sup>®</sup>.

For conversion and accessory options refer to pages 320-325.



<sup>†</sup> All marks shown within this document are properties of their respective owners.

## Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Single Phase Weather Protected Type I (WPI) Standard Efficient



AUR,  
AUC

### APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

### FEATURES:

- Equipped with Non-Reverse Ratchet
- 1.15 Service Factor, 40°C Ambient
- Class F Insulation
- Capacitor Start Design
- Corrosion Resistant Mill & Chemical Duty Paint
- 3,300 Feet Altitude
- Stainless Steel Nameplate
- **Discount Symbol: DS-7VS**

| HP    | RPM  | Voltage | Frame | Catalog Number | Type | List w/ NRR | List w/ SRC | Down Thrust (lbs.) | Base Dia. (in.) | Cplg. Height (in.) | Cplg. BX (in.) | Cplg. Key Size | Ship Wt. (lbs) | Notes |
|-------|------|---------|-------|----------------|------|-------------|-------------|--------------------|-----------------|--------------------|----------------|----------------|----------------|-------|
| 3     | 1800 | 115/230 | 215P  | HS3C2PLE       | AUR  | \$4,568     | \$4,291     | 2500               | 10              | 17-9/16            | 1              | 1/4            | 220            |       |
| 5     | 3600 | 230     | 215P  | HS5C1KLE       | AUR  | \$4,779     | \$4,502     | 2200               | 10              | 17-9/16            | 1              | 1/4            | 220            |       |
|       | 1800 | 230     | 254UP | HS5C2KLE       | AUC  | \$5,789     | \$5,460     | 2500               | 10              | 23-3/8             | 1              | 1/4            | 265            |       |
| 7 1/2 | 3600 | 230     | 254UP | HS7C1KLE       | AUC  | \$6,817     | \$6,488     | 2600               | 10              | 23-3/8             | 1              | 1/4            | 265            |       |
|       | 1800 | 230     | 256UP | HS7C2KLE       | AUC  | \$7,831     | \$7,455     | 3300               | 10              | 23-3/8             | 1              | 1/4            | 300            |       |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

† All marks shown within this document are properties of their respective owners.



# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Standard Efficient



AU, RU

## APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

## FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- 115 Volt Space Heater (through 250 HP)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- **Discount Symbol: DS-7VS**

| HP    | RPM  | Voltage | Frame  | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs.) | Base Dia. (in.) | Cplg. Height (in.) | Cplg. BX (in.) | Cplg. Key Size | Ship Wt. (lbs) | Notes   |
|-------|------|---------|--------|----------------|------|-------------|-------------|-----------|--------------------|-----------------|--------------------|----------------|----------------|----------------|---------|
| 7 1/2 | 1200 | 230/460 | 254TPH | HO7S3BLF       | AU   | \$3,657     | \$3,282     | 86.5      | 3800               | 12              | 23-3/8             | 1              | 1/4            | 265            | LA      |
| 10    | 1200 | 230/460 | 256TPH | HO10S3BLF      | AU   | \$4,136     | \$3,751     | 87.5      | 3800               | 12              | 23-3/8             | 1              | 1/4            | 300            | LA      |
| 15    | 1800 | 230/460 | 254TP  | HO15S2BLE      | AU   | \$3,606     | \$3,277     | 89.5      | 3300               | 10              | 23-3/8             | 1              | 1/4            | 265            | LA      |
|       | 1800 | 230/460 | 254TPA | HO15S2BLG      | AU   | \$3,606     | \$3,277     | 89.5      | 3300               | 16-1/2          | 23-3/8             | 1              | 1/4            | 265            | LA      |
|       | 1200 | 230/460 | 284TPA | HO15S3BLF      | AU   | \$4,822     | \$4,411     | 88.5      | 3800               | 12              | 24-3/4             | 1              | 1/4            | 305            | LA      |
| 20    | 3600 | 230/460 | 254TPH | HO20S1BLF      | AU   | \$3,831     | \$3,479     | 88.5      | 2600               | 12              | 23-3/8             | 1              | 1/4            | 265            | LA      |
|       | 1800 | 230/460 | 256TPA | HO20S2BLG      | AU   | \$4,108     | \$3,732     | 89.5      | 3300               | 16-1/2          | 23-3/8             | 1              | 1/4            | 300            | LA      |
|       | 1800 | 230/460 | 256TPH | HO20S2BLF      | AU   | \$4,108     | \$3,732     | 89.5      | 3300               | 12              | 23-3/8             | 1              | 1/4            | 300            | LA      |
|       | 1200 | 230/460 | 286TPH | HO20S3BLG      | AU   | \$5,798     | \$5,329     | 88.5      | 3800               | 16-1/2          | 24-3/4             | 1              | 1/4            | 325            | LA      |
| 25    | 3600 | 230/460 | 256TPH | HO25S1BLF      | AU   | \$4,052     | \$3,667     | 89.5      | 2600               | 12              | 23-3/8             | 1              | 1/4            | 300            | LA      |
|       | 1800 | 230/460 | 284TPA | HO25S2BLF      | AU   | \$4,582     | \$4,164     | 89.5      | 3300               | 12              | 24-3/4             | 1              | 1/4            | 305            | LA      |
|       | 1800 | 230/460 | 284TPH | HO25S2BLG      | AU   | \$4,582     | \$4,164     | 89.5      | 3300               | 16-1/2          | 24-3/4             | 1              | 1/4            | 305            | LA      |
|       | 1200 | 230/460 | 324TP  | HO25S3BLG      | RU   | \$6,690     | \$6,150     | 87.5      | 6700               | 16-1/2          | 28-7/32            | 1              | 1/4            | 635            | LA      |
| 30    | 3600 | 230/460 | 284TPA | HO30S1BLF      | AU   | \$4,437     | \$4,033     | 88.5      | 2600               | 12              | 24-3/4             | 1              | 1/4            | 305            | LA      |
|       | 1800 | 230/460 | 286TPA | HO30S2BLF      | AU   | \$5,150     | \$4,685     | 90.2      | 3300               | 12              | 24-3/4             | 1              | 1/4            | 325            | LA      |
|       | 1800 | 230/460 | 286TPH | HO30S2BLG      | AU   | \$5,150     | \$4,685     | 90.2      | 3300               | 16-1/2          | 24-3/4             | 1              | 1/4            | 325            | LA      |
|       | 1200 | 230/460 | 326TP  | HO30S3BLG      | RU   | \$7,639     | \$7,019     | 87.5      | 6700               | 16-1/2          | 28-7/32            | 1-1/4          | 3/8            | 675            | LA      |
| 40    | 3600 | 230/460 | 286TPA | HO40S1BLF      | AU   | \$5,798     | \$5,272     | 89.5      | 2600               | 12              | 24-3/4             | 1              | 1/4            | 325            | LA      |
|       | 1800 | 230/460 | 324TP  | HO40S2BLG      | RU   | \$5,986     | \$5,502     | 89.5      | 5700               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 635            | LA      |
|       | 1800 | 230/460 | 324TP  | HO40S2BLGN     | RU   | -           | \$5,502     | 89.5      | 5700               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 635            | 91, LA  |
|       | 1800 | 230/460 | 324TPH | HO40S2BLF      | RU   | \$5,986     | \$5,502     | 89.5      | 5700               | 12              | 28-7/32            | 1-1/4          | 1/4            | 635            | LA      |
|       | 1800 | 460     | 324TP  | HO40S2SLG      | RU   | \$5,986     | \$5,502     | 89.5      | 5700               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 635            | PWS, LA |
|       | 1200 | 230/460 | 364TP  | HO40S3BLGX     | RU   | \$9,333     | \$8,577     | 88.5      | 11725              | 16-1/2          | 31-5/32            | 1-1/4          | 3/8            | 730            | LA      |
| 50    | 3600 | 230/460 | 324TPH | HO50S1BLF      | RU   | \$6,587     | \$6,052     | 88.5      | 4600               | 12              | 28-7/32            | 1              | 1/4            | 635            | LA      |
|       | 1800 | 230/460 | 326TP  | HO50S2BLG      | RU   | \$7,103     | \$6,526     | 90.2      | 5700               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 675            | LA      |
|       | 1800 | 230/460 | 326TP  | HO50S2BLGN     | RU   | -           | \$6,526     | 90.2      | 5700               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 675            | 91, LA  |
|       | 1800 | 230/460 | 326TPH | HO50S2BLF      | RU   | \$7,103     | \$6,526     | 90.2      | 5700               | 12              | 28-7/32            | 1-1/4          | 1/4            | 675            | LA      |
|       | 1800 | 460     | 326TP  | HO50S2SLG      | RU   | \$7,103     | \$6,526     | 90.2      | 5700               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 675            | PWS, LA |
|       | 1200 | 230/460 | 365TP  | HO50S3BLGX     | RU   | \$11,005    | \$10,113    | 90.2      | 11725              | 16-1/2          | 31-5/32            | 1-1/4          | 3/8            | 800            | LA      |
| 60    | 3600 | 460     | 326TP  | HO60S1SLG      | RU   | \$7,859     | \$7,221     | 89.5      | 4600               | 16-1/2          | 28-7/32            | 1-1/4          | 1/4            | 675            | PWS, LA |
|       | 1800 | 230/460 | 364TP  | HO60S2BLG      | RU   | \$8,202     | \$7,540     | 90.2      | 5700               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 730            | LA      |
|       | 1800 | 230/460 | 364TP  | HO60S2BLGN     | RU   | -           | \$7,540     | 90.2      | 5700               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 730            | 91, LA  |
|       | 1800 | 460     | 364TP  | HO60S2SLG      | RU   | \$8,202     | \$7,540     | 90.2      | 5700               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 730            | PWS, LA |
|       | 1200 | 460     | 404TP  | HO60S3SLGX     | RU   | \$12,568    | \$11,549    | 89.5      | 13650              | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1110           | PWS, LA |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

An "X" as the last character in the Catalog number indicates Extra High Thrust.

Note 91 Includes SRC & 115V Space Heater

Note PWS Part Winding Start

Note LA Limited Availability

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# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Standard Efficient

(continued)



AU, RU

| HP  | RPM  | Voltage | Frame   | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs.) | Base Dia. (in.) | Cplg. Height (in.) | Cplg. BX (in.) | Cplg. Key Size | Ship Wt. (lbs) | Notes            |
|-----|------|---------|---------|----------------|------|-------------|-------------|-----------|--------------------|-----------------|--------------------|----------------|----------------|----------------|------------------|
| 75  | 3600 | 460     | 364TP   | HO75S1SLG      | RU   | \$9,831     | \$9,038     | 89.5      | 4500               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 730            | PWS, LA          |
|     | 1800 | 230/460 | 365TP   | HO75S2BLG      | RU   | \$9,986     | \$9,178     | 91.7      | 5700               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 800            | LA               |
|     | 1800 | 230/460 | 365TP   | HO75S2BLGN     | RU   | -           | \$9,178     | 91.7      | 5700               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 800            | 91, LA           |
|     | 1800 | 460     | 365TP   | HO75S2SLG      | RU   | \$9,986     | \$9,178     | 91.7      | 5700               | 16-1/2          | 31-5/32            | 1-1/4          | 1/4            | 800            | PWS, LA          |
|     | 1200 | 460     | 405TP   | HO75S3SLGX     | RU   | \$14,779    | \$13,582    | 89.5      | 13650              | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1200           | PWS, LA          |
| 100 | 3600 | 460     | 365TP   | HO100S1SLG     | RU   | \$13,249    | \$12,174    | 91.0      | 4500               | 16-1/2          | 31-5/32            | 1-1/4          | 3/8            | 800            | PWS, LA          |
|     | 1800 | 230/460 | 404TP   | HO100S2BLG     | RU   | \$12,615    | \$11,596    | 93.0      | 6700               | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1110           | LA               |
|     | 1800 | 460     | 404TP   | HO100S2SLG     | RU   | \$12,615    | \$11,596    | 93.0      | 6700               | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1110           | PWS, LA          |
|     | 1800 | 460     | 404TP   | HO100S2SLGX    | RU   | \$13,150    | \$12,131    | 93.0      | 11725              | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1110           | PWS, LA          |
| 125 | 1800 | 460     | 405TP   | HO125S2SLG     | RU   | \$15,239    | \$14,005    | 93.0      | 6700               | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1200           | PWS, LA          |
|     | 1800 | 460     | 405TP   | HO125S2SLGX    | RU   | \$15,887    | \$14,653    | 93.0      | 11725              | 16-1/2          | 36-15/16           | 1-1/2          | 3/8            | 1200           | PWS, LA          |
| 150 | 1800 | 460     | H444TP  | HO150S2SLG     | RU   | \$18,333    | \$17,033    | 93.0      | 9800               | 16-1/2          | 44-25/32           | 1-11/16        | 3/8            | 1500           | PWS, LA          |
|     | 1800 | 460     | H444TP  | HO150S2SLGX    | RU   | \$19,131    | \$17,831    | 92.4      | 17150              | 16-1/2          | 44-25/32           | 1-11/16        | 3/8            | 1500           | PWS, LA          |
|     | 1800 | 460     | H444TPA | HO150S2SLH     | RU   | \$18,333    | \$17,033    | 93.0      | 9800               | 20              | 44-25/32           | 1-11/16        | 3/8            | 1500           | PWS, LA          |
| 200 | 1800 | 460     | H445TP  | HO200S2SLG     | RU   | \$24,911    | \$23,141    | 94.5      | 9800               | 16-1/2          | 44-25/32           | 1-11/16        | 3/8            | 1600           | PWS, LA          |
|     | 1800 | 460     | H445TPA | HO200S2SLHX    | RU   | \$25,991    | \$24,221    | 94.1      | 17150              | 20              | 44-25/32           | 1-11/16        | 3/8            | 1600           | PWS, LA          |
| 250 | 1800 | 460     | H445TPA | HO250S2SLHX    | RU   | \$29,944    | \$28,610    | 94.5      | 17150              | 20              | 44-25/32           | 1-11/16        | 3/8            | 1600           | PWS, LA          |
| 300 | 1800 | 460     | 447TPA  | HO300S2SLHX    | RU   | \$35,326    | \$34,080    | 94.5      | 17150              | 20              | 49-25/32           | 1-11/16        | 3/8            | 2200           | 51,PWS, LA       |
| 350 | 1800 | 460     | 447TPA  | HO350S2SLHX    | RU   | \$40,796    | \$39,549    | 94.5      | 17150              | 20              | 49-25/32           | 1-11/16        | 3/8            | 2200           | 51,PWS, LA       |
| 400 | 1800 | 460     | 449TPH  | HO400S2SLHX    | HU   | \$46,261    | \$45,014    | 95.4      | 28500              | 20              | 49-25/32           | 1-15/16        | 1/2            | 2800           | 51,52,53,PWS, LA |
| 500 | 1800 | 460     | 5008PH  | HO500S2SLHX    | RU   | \$56,378    | \$54,969    | 95.4      | 28500              | 20              | 57-1/16            | 2-3/16         | 1/2            | 3700           | 51,52,53,PWS, LA |
| 600 | 1800 | 460     | 5008P   | HO600S2SLJX    | RU   | \$84,730    | \$83,322    | 95.0      | 28500              | 24-1/2          | 57-1/16            | 2-3/16         | 1/2            | 3700           | 51,52,53,PWS, LA |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

An "X" as the last character in the Catalog number indicates Extra High Thrust.

Note 51 Equipped with Winding Thermostat

Note 52 Requires minimal external thrust equal to 30% down thrust value shown

Note 53 Synthetic Oil required

Note 91 Includes SRC &amp; 115V Space Heater

Note PWS Part Winding Start

Note LA Limited Availability

† All marks shown within this document are properties of their respective owners.



# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Energy Efficient



AUE, RUE

## APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

## FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- 115 Volt Space Heater (through 250 HP)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- **Discount Symbol: DS-7VS**

| HP    | RPM  | Voltage | Frame  | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Cplg. Height (in) | Cplg. BX (in) | Cplg. Key Size | Ship Wt. (lbs) | Notes   |
|-------|------|---------|--------|----------------|------|-------------|-------------|-----------|-------------------|----------------|-------------------|---------------|----------------|----------------|---------|
| 7 1/2 | 1800 | 230/460 | 213TP  | HO7E2BLE       | AUE  | \$3,303     | \$3,059     | 90.2      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 210            | LA      |
| 10    | 1800 | 230/460 | 215TP  | HO10E2BLE      | AUE  | \$3,641     | \$3,364     | 91.0      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 220            | LA      |
| 25    | 1800 | 230/460 | 284TPH | HO25E2BLG      | AUE  | \$5,606     | \$5,188     | 92.4      | 3300              | 16-1/2         | 24-3/4            | 1             | 1/4            | 305            | LA      |
| 30    | 1800 | 230/460 | 286TPH | HO30E2BLG      | AUE  | \$6,174     | \$5,709     | 92.4      | 3300              | 16-1/2         | 24-3/4            | 1             | 1/4            | 325            | LA      |
| 40    | 1800 | 230/460 | 324TP  | HO40E2BLG      | RUE  | \$7,383     | \$6,899     | 93.6      | 5700              | 16-1/2         | 28-7/32           | 1-1/4         | 1/4            | 635            | LA      |
|       | 1800 | 230/460 | 324TPH | HO40E2BLF      | RUE  | \$7,383     | \$6,899     | 93.6      | 5700              | 12             | 28-7/32           | 1-1/4         | 1/4            | 635            | LA      |
|       | 1800 | 575     | 324TP  | HO40E2GLG      | RUE  | \$7,383     | \$6,899     | 93.0      | 5700              | 16-1/2         | 28-7/32           | 1-3/16        | 1/4            | 635            | LA      |
| 50    | 1800 | 230/460 | 326TP  | HO50E2BLG      | RUE  | \$8,500     | \$7,923     | 93.6      | 5700              | 16-1/2         | 28-7/32           | 1-1/4         | 1/4            | 675            | LA      |
|       | 1800 | 575     | 326TP  | HO50E2GLG      | RUE  | \$8,500     | \$7,923     | 93.0      | 5700              | 16-1/2         | 28-7/32           | 1-3/16        | 1/4            | 675            | LA      |
| 60    | 1800 | 460     | 364TP  | HO60E2SLG      | RUE  | \$10,063    | \$9,401     | 94.1      | 5700              | 16-1/2         | 31-5/32           | 1-1/4         | 1/4            | 730            | PWS, LA |
|       | 1800 | 575     | 364TP  | HO60E2GLG      | RUE  | \$10,063    | \$9,401     | 93.6      | 5700              | 16-1/2         | 31-5/32           | 1-3/16        | 1/4            | 730            | LA      |
| 75    | 1800 | 460     | 365TP  | HO75E2SLG      | RUE  | \$11,847    | \$11,040    | 94.1      | 5700              | 16-1/2         | 31-5/32           | 1-1/4         | 1/4            | 800            | PWS, LA |
|       | 1800 | 575     | 365TP  | HO75E2GLG      | RUE  | \$11,847    | \$11,040    | 94.1      | 5700              | 16-1/2         | 31-5/32           | 1-3/16        | 1/4            | 800            | LA      |
| 100   | 1800 | 460     | 404TP  | HO100E2SLG     | RUE  | \$15,230    | \$14,211    | 94.5      | 6700              | 16-1/2         | 36-15/16          | 1-1/2         | 3/8            | 1110           | PWS, LA |
| 125   | 1800 | 460     | 405TP  | HO125E2SLG     | RUE  | \$17,854    | \$16,620    | 95.0      | 6700              | 16-1/2         | 36-15/16          | 1-1/2         | 3/8            | 1200           | PWS, LA |
| 150   | 1800 | 460     | H444TP | HO150E2SLG     | RUE  | \$23,955    | \$22,655    | 95.4      | 9800              | 16-1/2         | 44-25/32          | 1-11/16       | 3/8            | 1500           | PWS, LA |
| 200   | 1800 | 460     | H445TP | HO200E2SLG     | RUE  | \$30,533    | \$28,763    | 95.4      | 9800              | 16-1/2         | 44-25/32          | 1-11/16       | 3/8            | 1600           | PWS, LA |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

Note PWS Part Winding Start

Note LA Limited Availability

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# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient, SINEWAVE OPTIMIZED™

## APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps



RUS

## FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 115 Volt Space Heater (through 250 HP)
- Refer to Page viii for Guidelines & Compatibility with VFD's
- Corrosion Resistant Mill & Chemical Duty Paint
- Premium Efficient Design, Special Balance
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Discount Symbol: DS-7VS

| HP    | RPM  | Voltage | Frame  | Catalog Number | Type | List w/ NRR | List w/ SRC | NNE  | Down Thrust (lbs) | Base Dia. (in) | Cplg. Height (in) | Cplg. BX (in) | Cplg. Key Size | Ship Wt. (lbs) | Notes     |
|-------|------|---------|--------|----------------|------|-------------|-------------|------|-------------------|----------------|-------------------|---------------|----------------|----------------|-----------|
| 7 1/2 | 1200 | 230/460 | 254TPH | HO7P3BLF       | AUS  | \$4,983     | \$4,607     | 90.2 | 3800              | 12             | 23.38             | 1             | 1/4            | 265            |           |
| 10    | 1200 | 230/460 | 256TPH | HO10P3BLF      | AUS  | \$5,592     | \$5,207     | 91.7 | 3800              | 12             | 23.38             | 1             | 1/4            | 300            |           |
| 15    | 1800 | 230/460 | 254TP  | HO15P2BLE      | AUS  | \$4,686     | \$4,358     | 93.0 | 3300              | 10             | 24-3/4            | 1             | 1/4            | 265            |           |
|       | 1800 | 230/460 | 254TPA | HO15P2BLG      | AUS  | \$4,686     | \$4,358     | 93.0 | 3300              | 16.5           | 23-3/8            | 1             | 1/4            | 265            |           |
| 20    | 3600 | 230/460 | 254TPH | HO20P1BLF      | AUS  | \$4,708     | \$4,061     | 91.0 | 2600              | 12             | 24-3/4            | 1             | 1/4            | 265            |           |
|       | 1800 | 230/460 | 256TPH | HO20P2BLF      | AUS  | \$5,122     | \$4,763     | 93.0 | 3300              | 12             | 24-3/4            | 1             | 1/4            | 300            |           |
|       | 1800 | 230/460 | 256TPA | HO20P2BLG      | AUS  | \$5,122     | \$4,763     | 93.0 | 3300              | 16.5           | 24-3/4            | 1             | 1/4            | 300            |           |
| 25    | 3600 | 230/460 | 256TPH | HO25P1BLF      | AUS  | \$5,015     | \$4,368     | 91.7 | 2600              | 12             | 23-3/8            | 1             | 1/4            | 300            |           |
|       | 1800 | 230/460 | 284TPA | HO25P2BLF      | AUS  | \$5,778     | \$5,374     | 93.6 | 3300              | 12             | 24-3/4            | 1             | 1/4            | 305            |           |
|       | 1800 | 230/460 | 284TPH | HO25P2BLG      | AUS  | \$5,778     | \$5,374     | 93.6 | 3300              | 16.5           | 24-3/4            | 1             | 1/4            | 305            |           |
|       | 1800 | 230/460 | 284TPA | HO30P1BLF      | AUS  | \$5,369     | \$4,698     | 91.7 | 2600              | 12             | 24-3/4            | 1             | 1/4            | 300            |           |
| 30    | 1800 | 230/460 | 286TPA | HO30P2BLF      | AUS  | \$6,277     | \$5,838     | 94.1 | 3300              | 12             | 24-3/4            | 1             | 1/4            | 325            |           |
|       | 1800 | 230/460 | 286TPH | HO30P2BLG      | AUS  | \$6,277     | \$5,838     | 94.1 | 3300              | 16.5           | 24-3/4            | 1             | 1/4            | 325            |           |
|       | 1800 | 230/460 | 286TPA | HO40P1BLF      | AUS  | \$5,927     | \$5,228     | 92.4 | 2600              | 12             | 24-3/4            | 1             | 1/4            | 330            |           |
| 40    | 1800 | 230/460 | 324TPH | HO40P2BLF      | RUS  | \$7,017     | \$6,526     | 94.5 | 5700              | 12             | 28-7/32           | 1-1/4         | 1/4            | 635            |           |
|       | 1800 | 230/460 | 324TP  | HO40P2BLG      | RUS  | \$7,017     | \$6,526     | 94.5 | 5700              | 16-1/2         | 28-7/32           | 1-1/4         | 1/4            | 635            |           |
|       | 1800 | 460     | 324TP  | HO40P2SLG      | RUS  | \$7,017     | \$6,526     | 94.5 | 5700              | 16-1/2         | 28-7/32           | 1-1/4         | 1/4            | 635            | PWS       |
|       | 1800 | 230/460 | 326TPH | HO50P2BLF      | RUS  | \$8,182     | \$7,609     | 94.5 | 5700              | 12             | 28-7/32           | 1-1/4         | 1/4            | 675            |           |
| 50    | 1800 | 230/460 | 326TP  | HO50P2BLG      | RUS  | \$8,182     | \$7,609     | 94.5 | 5700              | 16-1/2         | 28-7/32           | 1-1/4         | 1/4            | 675            |           |
|       | 1800 | 460     | 326TP  | HO50P2SLG      | RUS  | \$8,182     | \$7,609     | 94.5 | 5700              | 16-1/2         | 28-7/32           | 1-1/4         | 1/4            | 675            | PWS       |
|       | 1800 | 230/460 | 364TP  | HO60P2BLG      | RUS  | \$9,528     | \$8,861     | 95.0 | 5700              | 16-1/2         | 31-5/32           | 1-1/4         | 1/4            | 730            |           |
| 60    | 1800 | 460     | 364TP  | HO60P2SLG      | RUS  | \$9,528     | \$8,861     | 95.0 | 5700              | 16-1/2         | 31-5/32           | 1-1/4         | 1/4            | 730            | PWS       |
|       | 1800 | 230/460 | 365TP  | HO75P2BLG      | RUS  | \$11,327    | \$10,534    | 95.0 | 5700              | 16-1/2         | 31-5/32           | 1-1/4         | 1/4            | 800            |           |
|       | 1800 | 460     | 365TP  | HO75P2SLG      | RUS  | \$11,327    | \$10,534    | 95.0 | 5700              | 16-1/2         | 31-5/32           | 1-1/4         | 1/4            | 800            | PWS       |
| 100   | 1800 | 230/460 | 404TP  | HO100P2BLG     | RUS  | \$14,376    | \$13,370    | 95.4 | 6700              | 16-1/2         | 36-5/16           | 1-1/2         | 3/8            | 1100           |           |
|       | 1800 | 460     | 404TP  | HO100P2SLG     | RUS  | \$14,376    | \$13,370    | 95.4 | 6700              | 16-1/2         | 36-5/16           | 1-1/2         | 3/8            | 1100           | PWS       |
|       | 1800 | 460     | 404TP  | HO100P2SLGX    | RUS  | \$14,858    | \$13,818    | 95.4 | 11725             | 16-1/2         | 36-5/16           | 1-1/2         | 3/8            | 1100           | PWS       |
| 125   | 1800 | 460     | 405TP  | HO125P2SLG     | RUS  | \$17,769    | \$16,330    | 95.4 | 6700              | 16-1/2         | 36-15/16          | 1-1/2         | 3/8            | 1200           | PWS       |
|       | 1800 | 460     | 405TP  | HO125P2SLGX    | RUS  | \$18,387    | \$16,959    | 95.4 | 11725             | 16-1/2         | 36-15/16          | 1-1/2         | 3/8            | 1200           | PWS       |
| 150   | 1800 | 460     | H444TP | HO150P2SLG     | RUS  | \$22,955    | \$21,655    | 95.8 | 9800              | 16-1/2         | 44-7/8            | 1-11/16       | 3/8            | 1500           | PWS       |
|       | 1800 | 460     | H444TP | HO150P2SLGX    | RUS  | \$23,466    | \$22,166    | 95.8 | 17150             | 16-1/2         | 44-7/8            | 1-11/16       | 3/8            | 1500           | PWS       |
|       | 1800 | 460     | H444TP | HO150P2SLH     | RUS  | \$22,955    | \$21,655    | 95.8 | 9800              | 20             | 44-7/8            | 1-11/16       | 3/8            | 1500           | PWS       |
| 200   | 1800 | 460     | H445TP | HO200P2SLG     | RUS  | \$28,995    | \$26,935    | 95.8 | 9800              | 16-1/2         | 44-7/8            | 1-11/16       | 3/8            | 1600           | PWS       |
|       | 1800 | 460     | H445TP | HO200P2SLHX    | RUS  | \$29,974    | \$27,933    | 95.8 | 17150             | 20             | 44-7/8            | 1-11/16       | 3/8            | 1600           | PWS       |
| 250   | 1800 | 460     | H445TP | HO250P2SLHX    | RUS  | \$37,811    | \$36,127    | 95.8 | 17150             | 20             | 44-7/8            | 1-11/16       | 3/8            | 1600           | PWS       |
| 300   | 1800 | 460     | 447TPA | HO300P2SLHX    | RUS  | \$43,899    | \$42,351    | 95.8 | 17150             | 20             | 49-25/32          | 1-11/16       | 3/8            | 2100           | PWS       |
| 350   | 1800 | 460     | 447TPA | HO350P2SLHX    | RUS  | \$49,277    | \$47,771    | 95.8 | 17150             | 20             | 49-25/32          | 1-11/16       | 3/8            | 2100           | PWS       |
| 400   | 1800 | 460     | 449TPH | HO400P2SLHX    | HUS  | \$55,213    | \$53,725    | 96.2 | 28500             | 20             | 49-25/32          | 1-15/16       | 1/2            | 2800           | 52,53,PWS |
| 450   | 1800 | 460     | 449TPH | HO450P2SLHX    | HUS  | \$58,702    | \$57,235    | 96.2 | 28500             | 20             | 49-25/32          | 1-15/16       | 1/2            | 2800           | 52,53,PWS |
| 500   | 1800 | 460     | 5008PH | HO500P2SLHX    | RUE  | \$69,896    | \$68,735    | 96.2 | 28500             | 20             | 57-1/16           | 2 3/16        | 1/2            | 3700           | 52,53,PWS |
| 600   | 1800 | 460     | 5012P  | HO600P2SLJX    | RUE  | \$93,512    | \$91,958    | 96.2 | 30500             | 24.5           | 72-5/16           | 2 3/16        | 1/2            | 6200           | 52,53,PWS |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

52 Requires minimal external thrust equal to 30% down thrust value shown

53 Synthetic Oil required

Note PWS Part Winding Start

† All marks shown within this document are properties of their respective owners.



# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient & Inverter Duty



## APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

## FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor (230/460 Volt Ratings Only)
- Inverter Duty per NEMA® MG-1 Part 31 at 1.0 Service Factor
- 115 Volt Space Heater (through 250 HP)
- Corrosion Resistant Mill & Chemical Duty Paint
- Premium Efficient Design, Special Balance
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Discount Symbol: DS-7VS

| HP  | RPM  | Frame   | Voltage | Catalog Number | Type | List w/ NRR | List w/ SRC | NNE  | Down Thrust (lbs) | Base Dia. (in) | Cplg Height (in) | Cplg BX (in) | Cplg Key Size | Ship Wt. (lbs) | Notes       |
|-----|------|---------|---------|----------------|------|-------------|-------------|------|-------------------|----------------|------------------|--------------|---------------|----------------|-------------|
| 15  | 1800 | 254TP   | 230/460 | HO15V2BLE      | AUSI | \$5,226     | \$4,897     | 93.0 | 3300              | 10             | 23-3/8           | 1            | 1/4           | 265            | 51,97,D     |
| 20  | 1800 | 256TPH  | 230/460 | HO20V2BLF      | AUSI | \$5,728     | \$5,352     | 93.0 | 3300              | 12             | 23-3/8           | 1            | 1/4           | 300            | 51,97,D     |
| 25  | 1800 | 284TPA  | 230/460 | HO25V2BLF      | AUSI | \$6,456     | \$6,038     | 93.6 | 3300              | 12             | 24-3/4           | 1            | 1/4           | 305            | 51,97,D     |
| 30  | 1800 | 286TPA  | 230/460 | HO30V2BLF      | AUSI | \$7,024     | \$6,559     | 94.1 | 3300              | 12             | 24-3/4           | 1            | 1/4           | 325            | 51,97,D     |
| 40  | 1800 | 324TP   | 230/460 | HO40V2BLG      | RUSI | \$7,779     | \$7,296     | 94.1 | 5700              | 16-1/2         | 28-7/32          | 1-1/4        | 1/4           | 635            | 51,97,D     |
|     | 1800 | 324TPH  | 230/460 | HO40V2BLF      | RUSI | \$7,779     | \$7,296     | 94.1 | 5700              | 12             | 28-7/32          | 1-1/4        | 1/4           | 635            | 51,97,D     |
|     | 1800 | 324TP   | 575     | HO40V2GLG      | RUSI | \$7,779     | \$7,296     | 94.1 | 5700              | 16-1/2         | 28-7/32          | 1-1/4        | 1/4           | 635            | 51,97,D     |
| 50  | 1800 | 326TP   | 230/460 | HO50V2BLG      | RUSI | \$8,894     | \$8,317     | 94.5 | 5700              | 16-1/2         | 28-7/32          | 1-1/4        | 1/4           | 736            | 51,97,D     |
|     | 1800 | 326TP   | 575     | HO50V2GLG      | RUSI | \$8,894     | \$8,317     | 94.5 | 5700              | 16-1/2         | 28-7/32          | 1-1/4        | 1/4           | 675            | 51,97,D     |
| 60  | 1800 | 364TP   | 460     | HO60V2SLG      | RUSI | \$10,528    | \$9,866     | 95.0 | 5700              | 16-1/2         | 31-5/32          | 1-1/4        | 1/4           | 730            | 51,97,D,PWS |
|     | 1800 | 364TP   | 575     | HO60V2GLG      | RUSI | \$10,528    | \$9,866     | 95.0 | 5700              | 16-1/2         | 31-5/32          | 1-1/4        | 1/4           | 730            | 51,97,D     |
| 75  | 1800 | 365TP   | 460     | HO75V2SLG      | RUSI | \$12,312    | \$11,505    | 95.0 | 5700              | 16-1/2         | 31-5/32          | 1-1/4        | 1/4           | 800            | 51,97,D,PWS |
|     | 1800 | 365TP   | 575     | HO75V2GLG      | RUSI | \$12,312    | \$11,505    | 95.0 | 5700              | 16-1/2         | 31-5/32          | 1-1/4        | 1/4           | 800            | 51,97,D     |
| 100 | 1800 | 404TP   | 460     | HO100V2SLGX    | RUSI | \$16,418    | \$15,399    | 95.4 | 11725             | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1110           | 51,97,E,PWS |
|     | 1800 | 404TP   | 460     | HO100V2SLG     | RUSI | \$15,885    | \$14,866    | 95.4 | 6700              | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1110           | 51,97,E,PWS |
|     | 1800 | 404TP   | 575     | HO100V2GLG     | RUSI | \$15,885    | \$14,866    | 95.4 | 6700              | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1100           | 51,97,E,PWS |
| 125 | 1800 | 405TP   | 460     | HO125V2SLGX    | RUSI | \$19,153    | \$17,919    | 95.4 | 11725             | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1200           | 51,97,E,PWS |
|     | 1800 | 405TP   | 460     | HO125V2SLG     | RUSI | \$18,509    | \$17,275    | 95.4 | 6700              | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1200           | 51,97,E,PWS |
|     | 1800 | 405TP   | 575     | HO125V2GLG     | RUSI | \$18,509    | \$17,275    | 95.4 | 6700              | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1200           | 51,97,E,PWS |
| 150 | 1800 | H444TP  | 460     | HO150V2SLGX    | RUSI | \$25,109    | \$23,809    | 95.8 | 17150             | 16-1/2         | 44-25/32         | 1-11/16      | 3/8           | 1500           | 51,97,E,PWS |
|     | 1800 | H444TP  | 460     | HO150V2SLG     | RUSI | \$24,562    | \$23,262    | 95.8 | 9800              | 16-1/2         | 44-25/32         | 1-11/16      | 3/8           | 1500           | 51,97,E,PWS |
|     | 1800 | H444TP  | 575     | HO150V2GLG     | RUSI | \$24,562    | \$23,262    | 95.8 | 9800              | 16-1/2         | 44-25/32         | 1-11/16      | 3/8           | 1500           | 51,97,E,PWS |
| 200 | 1800 | H445TPA | 460     | HO200V2SLH     | RUSI | \$31,516    | \$29,746    | 95.8 | 9800              | 20             | 44-25/32         | 1-11/16      | 3/8           | 1600           | 51,97,E,PWS |
|     | 1800 | H445TPA | 460     | HO200V2SLHX    | RUSI | \$32,580    | \$30,810    | 95.8 | 17150             | 20             | 44-25/32         | 1-11/16      | 3/8           | 1600           | 51,97,E,PWS |
|     | 1800 | H445TP  | 575     | HO200V2GLG     | RUSI | \$31,516    | \$29,746    | 95.8 | 9800              | 16-1/2         | 44-25/32         | 1-11/16      | 3/8           | 1600           | 51,97,E,PWS |
| 250 | 1800 | H445TPA | 460     | HO250V2SLH     | RUSI | \$39,399    | \$38,066    | 95.8 | 9800              | 20             | 44-25/32         | 1-11/16      | 3/8           | 1600           | 51,97,E,PWS |
|     | 1800 | H445TPA | 460     | HO250V2SLHX    | RUSI | \$40,657    | \$39,324    | 95.8 | 17150             | 20             | 44-25/32         | 1-11/16      | 3/8           | 1600           | 51,97,E,PWS |
|     | 1800 | H445TP  | 575     | HO250V2GLG     | RUSI | \$39,399    | \$38,066    | 95.8 | 9800              | 16-1/2         | 44-25/32         | 1-11/16      | 3/8           | 1600           | 51,97,E,PWS |
| 300 | 1800 | 447TPA  | 460     | HO300V2SLHX    | RUSI | \$47,203    | \$45,957    | 95.8 | 17150             | 20             | 49-25/32         | 1-11/16      | 3/8           | 2100           | 51,97,E,PWS |
|     | 1800 | 447TPA  | 460     | HO300V2SLH     | RUSI | \$45,704    | \$44,458    | 95.8 | 9800              | 20             | 49-25/32         | 1-11/16      | 3/8           | 2200           | 51,97,E,PWS |
|     | 1800 | 447TP   | 575     | HO300V2GLG     | RUSI | \$45,704    | \$44,458    | 95.8 | 9800              | 16-1/2         | 49-25/32         | 1-11/16      | 3/8           | 2200           | 51,97,E,PWS |
| 350 | 1800 | 447TPA  | 460     | HO350V2SLH     | RUSI | \$50,683    | \$49,437    | 95.8 | 9800              | 20             | 49-25/32         | 1-11/16      | 3/8           | 2200           | 51,97,E,PWS |
|     | 1800 | 447TPA  | 460     | HO350V2SLHX    | RUSI | \$52,422    | \$51,176    | 95.8 | 17150             | 20             | 49-25/32         | 1-11/16      | 3/8           | 2100           | 51,97,E,PWS |
|     | 1800 | 447TP   | 575     | HO350V2GLG     | RUSI | \$50,683    | \$49,437    | 95.8 | 9800              | 16-1/2         | 49-25/32         | 1-11/16      | 3/8           | 2200           | 51,97,E,PWS |
| 400 | 1800 | 449TPH  | 460     | HO400V2SLHX    | HUSI | \$61,734    | \$60,488    | 95.8 | 28500             | 20             | 49-25/32         | 1-15/16      | 1/2           | 2800           | V10,PWS     |
|     | 1800 | 449TPH  | 460     | HO400V2SLH     | HUSI | \$57,514    | \$56,268    | 95.8 | 9500              | 20             | 49-25/32         | 1-15/16      | 1/2           | 2800           | 51,97,E,PWS |
|     | 1800 | 449TP   | 575     | HO400V2GLJ     | HUSI | \$57,514    | \$56,268    | 95.8 | 9500              | 24-1/2         | 49-25/32         | 1-15/16      | 1/2           | 2400           | 51,97,E,PWS |

† All marks shown within this document are properties of their respective owners.



## Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient & Inverter Duty *(continued)*

| HP  | RPM  | Frame  | Voltage | Catalog Number | Type | List w/ NRR | List w/ SRC | NNE  | Down Thrust (lbs) | Base Dia. (in) | Cplg Height (in) | Cplg BX (in) | Cplg Key Size | Ship Wt. (lbs) | Notes       |
|-----|------|--------|---------|----------------|------|-------------|-------------|------|-------------------|----------------|------------------|--------------|---------------|----------------|-------------|
| 450 | 1800 | 449TPH | 460     | HO450V2SLH     | HUSI | \$61,148    | \$59,871    | 96.2 | 9500              | 20             | 49-25/32         | 1-15/16      | 1/2           | 2800           | 51,97,E,PWS |
|     | 1800 | 449TPH | 460     | HO450V2SLHX    | HUSI | \$65,638    | \$64,361    | 96.2 | 28500             | 20             | 49-25/32         | 1-15/16      | 1/2           | 2800           | V10,PWS     |
| 500 | 1800 | 5008PH | 460     | HO500V2SLH     | RUEI | \$73,575    | \$71,736    | 96.2 | 9500              | 20             | 57-1/16          | 2-3/16       | ½             | 3700           | 51,97,E,PWS |
|     | 1800 | 5008PH | 460     | HO500V2SLHX    | RUEI | \$78,955    | \$77,116    | 96.2 | 28500             | 20             | 57-1/16          | 2-3/16       | 1/2           | 3700           | V10,PWS     |
| 600 | 1800 | 5012P  | 460     | HO600V2SLJX    | RUEI | \$99,481    | \$97,530    | 96.2 | 30900             | 24.5           | 72-5/16          | 2-3/16       | 5/8           | 4850           | V10,PWS     |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

An "X" as the last character in the Catalog number indicates Extra High Thrust.

Note 51 Equipped with Winding Thermostat  
 Note 97 Inverter Duty with Inverter Grade Insulation  
 Note D Includes internal shaft grounding ring  
 Note E Includes internal shaft grounding ring and upper insulated bearing

Note PWS Part Winding Start  
 Note V10 Equipped with Winding thermostat, Requires minimal external thrust equal to 30% down thrust for values showed, Synthetic Oil required, Inverter Duty with Inverter Grade insulation, and Includes internal shaft grounding ring and upper insulated bearing

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

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# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) International Duty

## APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

## FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 50°C Ambient, 3,300 Feet Altitude
- NEMA®† Design A, 60 Hertz
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Hardware
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Discount Symbol: DS-7VS

## 60 Hz, 220/380-440 Volt, 12 Lead Wye-Delta

| HP  | RPM  | Voltage     | Frame   | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Cplg Height (in) | Cplg BX (in) | Cplg Key Size | Ship Wt. (lbs) | Notes  |
|-----|------|-------------|---------|----------------|------|-------------|-------------|-----------|-------------------|----------------|------------------|--------------|---------------|----------------|--------|
| 20  | 1800 | 220/380-440 | 256TPH  | HO20S2RLF      | AU   | \$4,458     | \$4,082     | 90.2      | 3300              | 12             | 23-3/8           | 1            | 1/4           | 300            | LA, 48 |
| 25  | 1800 | 220/380-440 | 284TPA  | HO25S2RLF      | AU   | \$4,972     | \$4,554     | 89.5      | 3300              | 12             | 24-3/4           | 1            | 1/4           | 305            | LA     |
| 30  | 1800 | 220/380-440 | 286TPA  | HO30S2RLF      | AU   | \$5,587     | \$5,122     | 91.0      | 3300              | 12             | 24-3/4           | 1            | 1/4           | 325            | LA     |
| 40  | 1800 | 220/380-440 | 324TPH  | HO40S2RLF      | RU   | \$6,495     | \$6,012     | 91.0      | 5700              | 12             | 28-7/32          | 1            | 1/4           | 635            | LA, 48 |
| 50  | 1800 | 220/380-440 | 326TP   | HO50S2RLG      | RU   | \$7,707     | \$7,129     | 91.0      | 5700              | 16-1/2         | 28-7/32          | 1-3/16       | 1/4           | 675            | LA     |
| 60  | 1800 | 220/380-440 | 364TP   | HO60S2RLG      | RU   | \$8,899     | \$8,237     | 91.7      | 5700              | 16-1/2         | 31-5/32          | 1-3/16       | 1/4           | 730            | LA, 48 |
| 75  | 1800 | 220/380-440 | 365TP   | HO75S2RLG      | RU   | \$10,836    | \$10,028    | 91.0      | 5700              | 16-1/2         | 31-5/32          | 1-3/16       | 1/4           | 800            | LA, 48 |
| 100 | 1800 | 220/380-440 | 404TP   | HO100S2RLG     | RU   | \$13,646    | \$12,627    | 93.0      | 6700              | 16-1/2         | 36-15/16         | 1-3/16       | 1/4           | 1110           | LA     |
| 125 | 1800 | 220/380-440 | 405TP   | HO125S2RLG     | RU   | \$16,535    | \$15,300    | 93.6      | 6700              | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1200           | LA     |
| 150 | 1800 | 220/380-440 | H444TP  | HO150S2RLG     | RU   | \$19,892    | \$18,592    | 93.0      | 9800              | 16-1/2         | 44-25/32         | 1-1/2        | 3/8           | 1500           | LA, 48 |
| 200 | 1800 | 220/380-440 | H445TP  | HO200S2RLG     | RU   | \$27,028    | \$25,258    | 93.0      | 9800              | 16-1/2         | 44-25/32         | 1-1/2        | 3/8           | 1600           | LA     |
| 250 | 1800 | 220/380-440 | H445TPA | HO250S2RLH     | RU   | \$32,488    | \$31,160    | 95.0      | 9800              | 20             | 44-25/32         | 1-11/16      | 3/8           | 1600           | LA, 48 |
| 300 | 1800 | 220/380-440 | H447TPA | HO300S2RLHX    | RU   | \$37,279    | \$36,110    | 95.0      | 17150             | 20             | 49-25/32         | 1-11/16      | 3/8           | 2200           | LA     |

## 50 Hz, 415Volt, 6 Lead Wye-Delta

| HP  | RPM  | Voltage | Frame  | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Cplg Height (in) | Cplg BX (in) | Cplg Key Size | Ship Wt. (lbs) | Notes |
|-----|------|---------|--------|----------------|------|-------------|-------------|-----------|-------------------|----------------|------------------|--------------|---------------|----------------|-------|
| 25  | 1500 | 415     | 284TPA | HO25S25LF      | AU   | \$4,969     | \$4554      | 88.5      | 3300              | 12             | 24-3/4           | 1            | 1/4           | 305            |       |
| 30  | 1500 | 415     | 286TPA | HO30S25LF      | AU   | \$5,587     | \$5122      | 89.5      | 3300              | 12             | 24-3/4           | 1            | 1/4           | 325            |       |
| 40  | 1500 | 415     | 324TP  | HO40S25LG      | RU   | \$6,472     | \$6012      | 91.7      | 5700              | 16-1/2         | 28-7/32          | 1-1/4        | 1/4           | 635            |       |
| 50  | 1500 | 415     | 326TP  | HO50S25LG      | RU   | \$7,707     | \$7129      | 91.0      | 5700              | 16-1/2         | 28-7/32          | 1-3/16       | 1/4           | 675            |       |
| 60  | 1500 | 415     | 364TP  | HO60S25LG      | RU   | \$8,899     | \$8237      | 91.0      | 5700              | 16-1/2         | 31-5/32          | 1-3/16       | 1/4           | 730            |       |
| 75  | 1500 | 415     | 365TP  | HO75S25LG      | RU   | \$10,836    | \$10028     | 91.0      | 5700              | 16-1/2         | 31-5/32          | 1-3/16       | 1/4           | 800            |       |
| 100 | 1500 | 415     | 404TP  | HO100S25LG     | RU   | \$13,646    | \$12627     | 92.4      | 6700              | 16-1/2         | 36-15/16         | 1-3/16       | 1/4           | 1110           |       |
| 125 | 1500 | 415     | 405TP  | HO125S25LG     | RU   | \$16,535    | \$15300     | 93.0      | 6700              | 16-1/2         | 36-15/16         | 1-1/2        | 3/8           | 1200           |       |
| 150 | 1500 | 415     | H444TP | HO150S25LG     | RU   | \$19,892    | \$18592     | 94.1      | 9800              | 16-1/2         | 44-25/32         | 1-1/2        | 3/8           | 1500           |       |
| 200 | 1500 | 415     | H445TP | HO200S25LG     | RU   | \$26,988    | \$12258     | 94.1      | 9800              | 16-1/2         | 44-25/32         | 1-1/2        | 3/8           | 1600           |       |
| 250 | 1500 | 415     | H445TP | HO250S25LH     | RU   | \$32,488    | \$32488     | 93.6      | 9800              | 20             | 44-25/32         | 1-11/16      | 3/8           | 1600           |       |
| 300 | 1500 | 415     | 447TPA | HO300S25LH     | RU   | \$36,488    | \$36488     | 94.5      | 9800              | 20             | 49-25/32         | 1-11/16      | 3/8           | 2200           | 48    |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

Note 48 Can be namplated for 50 Hertz, 190/380 volt, 40C Ambient, 1.0 Service Factor, Class F Rise

Note LA Limited Availability

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# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Totally Enclosed Fan Cooled (TEFC) Standard Efficient

## APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

## FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- **Discount Symbol: DS-7VS**

| HP    | RPM  | Voltage | Frame  | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Cplg. Height (in) | Cplg. BX (in) | Cplg. Key Size | Ship Wt. (lbs) | Notes                   |
|-------|------|---------|--------|----------------|------|-------------|-------------|-----------|-------------------|----------------|-------------------|---------------|----------------|----------------|-------------------------|
| 5     | 3600 | 230/460 | 184TP  | HT5S1BLE       | TU   | \$2,692     | \$2,434     | 80.0      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 170            | LA                      |
|       | 1800 | 230/460 | 184TP  | HT5S2BLE       | TU   | \$2,683     | \$2,298     | 82.5      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 170            | LA                      |
| 7 1/2 | 3600 | 230/460 | 213TP  | HT7S1BLE       | TU   | \$2,786     | \$2,514     | 81.5      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 210            | LA                      |
|       | 1800 | 230/460 | 213TP  | HT7S2BLE       | TU   | \$2,737     | \$2,394     | 84.0      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 210            | LA                      |
| 10    | 3600 | 230/460 | 215TP  | HT10S1BLE      | TU   | \$3,066     | \$2,789     | 82.5      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 220            | LA                      |
|       | 1800 | 230/460 | 215TP  | HT10S2BLE      | TU   | \$3,066     | \$2,714     | 86.5      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 220            | LA                      |
| 15    | 3600 | 230/460 | 215TP  | HT15S1BLE      | TU   | \$3,629     | \$3,352     | 86.5      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 220            | LA                      |
|       | 1800 | 230/460 | 254TP  | HT15S2BLE      | TU   | \$4,683     | \$4,261     | 88.5      | 3300              | 10             | 22-15/16          | 1             | 1/4            | 330            | LA                      |
| 20    | 1800 | 230/460 | 256TP  | HT20S2BLE      | TU   | \$5,343     | \$4,854     | 87.5      | 3300              | 10             | 22-15/16          | 1             | 1/4            | 300            | LA                      |
| 25    | 1800 | 230/460 | 284TPA | HT25S2BLF      | TU   | \$5,958     | \$5,413     | 89.5      | 3300              | 12             | 26-9/16           | 1             | 1/4            | 320            | LA                      |
| 30    | 1800 | 230/460 | 286TPA | HT30S2BLF      | TU   | \$6,700     | \$6,089     | 88.5      | 3300              | 12             | 26-9/16           | 1             | 1/4            | 330            | 1.00 Service Factor, LA |
| 40    | 1800 | 230/460 | 324TP  | HT40S2BLG      | TU   | \$8,380     | \$7,700     | 91.0      | 4500              | 16-1/2         | 28-1/2            | 1-1/4         | 1/4            | 665            | LA                      |
| 50    | 1800 | 230/460 | 326TP  | HT50S2BLG      | TU   | \$9,944     | \$9,136     | 91.0      | 4500              | 16-1/2         | 28-1/2            | 1-1/4         | 1/4            | 690            | LA                      |
| 60    | 1800 | 460     | 364TP  | HT60S2CLG      | TU   | \$12,305    | \$11,305    | 91.7      | 5600              | 16-1/2         | 30                | 1-1/4         | 1/4            | 900            | LA                      |
| 75    | 1800 | 460     | 365TP  | HT75S2CLG      | TU   | \$14,981    | \$13,777    | 92.4      | 5600              | 16-1/2         | 30                | 1-1/4         | 1/4            | 925            | LA                      |
| 100   | 1800 | 460     | 405TP  | HT100S2CLG     | TU   | \$20,188    | \$18,554    | 93.0      | 7000              | 16-1/2         | 39-15/16          | 1-1/2         | 3/8            | 1500           | LA                      |
| 125   | 1800 | 460     | 444TP  | HT125S2CLG     | TU   | \$26,268    | \$24,399    | 92.4      | 9300              | 16-1/2         | 42-1/2            | 1-1/2         | 3/8            | 1900           | LA                      |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

Note LA Limited Availability

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# Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Totally Enclosed Fan Cooled (TEFC) Premium Efficient

## APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

## FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor

- 115 Volt Space Heater
- Suitable for Operation on VFD per NEMA® MG-1 Part 30 at 1.0 Service Factor
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Discount Symbol: **DS-7VS**

| HP    | RPM  | Frame  | Voltage | Catalog Number | Type | List w/ NRR | List w/ SRC | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Cplg. Height (in) | Cplg. BX (in) | Cplg. Key Size | Ship Wt. (lbs) | Notes |
|-------|------|--------|---------|----------------|------|-------------|-------------|-----------|-------------------|----------------|-------------------|---------------|----------------|----------------|-------|
| 5     | 3600 | 184TP  | 230/460 | HT5P1BLE       | TUS  | \$3,912     | \$3,579     | 88.5      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 170            |       |
|       | 1800 | 184TP  | 230/460 | HT5P2BLE       | TUS  | \$3,671     | \$3,338     | 90.2      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 170            |       |
| 7 1/2 | 3600 | 213TP  | 230/460 | HT7P1BLE       | TUS  | \$4,063     | \$3,720     | 89.5      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 210            |       |
|       | 1800 | 213TP  | 230/460 | HT7P2BLE       | TUS  | \$3,981     | \$3,638     | 91.7      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 210            |       |
| 10    | 3600 | 215TP  | 230/460 | HT10P1BLE      | TUS  | \$4,420     | \$4,068     | 90.2      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 220            |       |
|       | 1800 | 215TP  | 230/460 | HT10P2BLE      | TUS  | \$4,328     | \$3,976     | 91.7      | 2500              | 10             | 17-9/16           | 1             | 1/4            | 220            |       |
| 15    | 3600 | 215TP  | 230/460 | HT15P1BLE      | TUS  | \$4,969     | \$4,556     | 91.0      | 2200              | 10             | 17-9/16           | 1             | 1/4            | 220            |       |
|       | 1800 | 254TP  | 230/460 | HT15P2BLE      | TUS  | \$6,049     | \$5,626     | 93.0      | 3300              | 10             | 22-15/16          | 1             | 1/4            | 265            |       |
| 20    | 1800 | 256TP  | 230/460 | HT20P2BLE      | TUS  | \$6,736     | \$6,248     | 93.0      | 3300              | 10             | 22-15/16          | 1             | 1/4            | 300            |       |
| 25    | 1800 | 284TPA | 230/460 | HT25P2BLF      | TUS  | \$7,603     | \$7,058     | 93.6      | 3300              | 12             | 26-9/16           | 1             | 1/4            | 320            |       |
| 30    | 1800 | 286TPA | 230/460 | HT30P2BLF      | TUS  | \$8,379     | \$7,769     | 93.6      | 3300              | 12             | 26-9/16           | 1             | 1/4            | 330            |       |
| 40    | 1800 | 324TP  | 230/460 | HT40P2BLG      | TUS  | \$10,618    | \$9,937     | 94.5      | 4500              | 16-1/2         | 28-1/2            | 1-1/2         | 3/8            | 665            |       |
| 50    | 1800 | 326TP  | 230/460 | HT50P2BLG      | TUS  | \$12,256    | \$11,448    | 94.5      | 4500              | 16-1/2         | 28-1/2            | 1-1/2         | 3/8            | 690            |       |
| 60    | 1800 | 364TP  | 460     | HT60P2CLG      | TUS  | \$15,209    | \$14,209    | 95.0      | 5600              | 16-1/2         | 30                | 1-1/4         | 1/4            | 900            |       |
| 75    | 1800 | 365TP  | 460     | HT75P2CLG      | TUS  | \$17,924    | \$16,713    | 95.4      | 5600              | 16-1/2         | 30                | 1-1/4         | 1/4            | 925            |       |
| 100   | 1800 | 405TP  | 460     | HT100P2CLG     | TUS  | \$24,247    | \$22,613    | 95.4      | 7000              | 16-1/2         | 39-15/16          | 1-1/2         | 3/8            | 1500           |       |
| 125   | 1800 | 444TP  | 460     | HT125P2CLG     | TUS  | \$33,775    | \$31,906    | 95.4      | 9300              | 16-1/2         | 42-1/2            | 1-1/2         | 3/8            | 1800           |       |

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 282-284.

Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

† All marks shown within this document are properties of their respective owners.



# Vertical Solid Shaft Normal Thrust - "P" Base Three Phase, WPI & TEFC, Energy Efficient & Premium Efficient

## APPLICATIONS:

For use on vertical end suction, short couple pumps, centrifugal and non-clog pumps.

## FEATURES:

- 30HP & Below can be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- Class F Insulation, Class B Rise at Full Load
- 40°C Ambient, NEMA<sup>®</sup> Design B Performance

- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 1.15 Service Factor (Sine Wave), 40°C Ambient
- Corrosion Resistant Mill & Chemical Duty Paint
- **Discount Symbol: DS-7NS**



TV, AV, RV

## Energy Efficient

| HP    | RPM  | Voltage | Frame  | Catalog Number | Type | List     | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Ship Wt. (lbs) | Notes |
|-------|------|---------|--------|----------------|------|----------|-----------|-------------------|----------------|----------------|-------|
| 1     | 1800 | 230/460 | 143VP  | NT1E2BE        | TVE  | \$1,045  | 82.5      | 260               | 10             | 35             | LA    |
|       | 1200 | 230/460 | 145VP  | NT1E3BE        | TVE  | \$1,408  | 80.0      | 340               | 10             | 45             | LA    |
| 1 1/2 | 3600 | 230/460 | 143VP  | NT32E1BE       | TVE  | \$1,338  | 82.5      | 200               | 10             | 35             | LA    |
|       | 1800 | 230/460 | 145VP  | NT32E2BE       | TVE  | \$1,209  | 84.0      | 300               | 10             | 45             | LA    |
|       | 1200 | 230/460 | 182VP  | NT32E3BE       | TVE  | \$2,042  | 85.5      | 400               | 10             | 150            | LA    |
|       | 3600 | 230/460 | 145VP  | NT2E1BE        | TVE  | \$1,408  | 84.0      | 220               | 10             | 45             | LA    |
| 2     | 1800 | 230/460 | 145VP  | NT2E2BE        | TVE  | \$1,362  | 84.0      | 340               | 10             | 45             | LA    |
|       | 1200 | 230/460 | 184VP  | NT2E3BE        | TVE  | \$2,512  | 86.5      | 450               | 10             | 170            | LA    |
|       | 3600 | 230/460 | 182VP  | NO3E2BE        | AVE  | \$1,634  | 86.5      | 390               | 10             | 150            | LA    |
| 3     | 1800 | 230/460 | 182VP  | NT3E2BE        | TVE  | \$2,124  | 87.5      | 390               | 10             | 150            | LA    |
|       | 1800 | 230/460 | 184VP  | NT5E2BE        | TVE  | \$2,974  | 87.5      | 490               | 10             | 170            | LA    |
| 5     | 1800 | 230/460 | 184VP  | NO5E2BE        | AVE  | \$2,512  | 87.5      | 490               | 10             | 170            | LA    |
|       | 1800 | 230/460 | 213VP  | NT7E2BE        | TVE  | \$3,796  | 89.5      | 560               | 10             | 210            | LA    |
| 7 1/2 | 1800 | 230/460 | 213VP  | NO7E2BE        | AVE  | \$2,923  | 88.5      | 560               | 10             | 210            | LA    |
| 10    | 1800 | 230/460 | 215VP  | NO10E2BE       | AVE  | \$3,284  | 89.5      | 640               | 10             | 220            | LA    |
| 15    | 1800 | 230/460 | 254VP  | NO15E2BE       | AVE  | \$3,777  | 91.0      | 640               | 10             | 265            | LA    |
| 20    | 1800 | 230/460 | 256VP  | NO20E2BE       | AVE  | \$4,310  | 91.0      | 640               | 10             | 300            | LA    |
| 25    | 1800 | 230/460 | 284VPZ | NO25E2BE       | AVE  | \$4,620  | 91.7      | 640               | 10             | 305            | LA    |
| 30    | 1800 | 230/460 | 286VP  | NT30E2BE       | TVE  | \$6,756  | 92.4      | 640               | 10             | 330            | LA    |
|       | 1800 | 230/460 | 286VPZ | NO30E2BE       | AVE  | \$5,195  | 92.4      | 640               | 10             | 325            | LA    |
| 40    | 1800 | 230/460 | 324VP  | NO40E2BG       | RVE  | \$5,516  | 93.0      | 640               | 16-1/2         | 635            | LA    |
| 50    | 1800 | 230/460 | 326VP  | NO50E2BG       | RVE  | \$6,547  | 93.0      | 640               | 16-1/2         | 675            | LA    |
| 100   | 1800 | 230/460 | 404VPZ | NO100E2BG      | RVE  | \$11,143 | 95.0      | 720               | 16-1/2         | 1110           | LA    |
| 125   | 1800 | 230/460 | 405VPZ | NO125E2BG      | RVE  | \$13,460 | 94.5      | 720               | 16-1/2         | 1200           | LA    |

## Premium Efficient

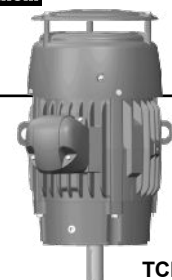
| HP    | RPM  | Voltage | Frame | Catalog Number | Type | List    | % FL Eff. | Down Thrust (lbs) | Base Dia. (in) | Ship Wt. (lbs) | Notes |
|-------|------|---------|-------|----------------|------|---------|-----------|-------------------|----------------|----------------|-------|
| 1     | 1800 | 230/460 | 143VP | NT1P2BE        | TVS  | \$1,136 | 85.5      | 260               | 10             | 35             |       |
|       | 1200 | 230/460 | 145VP | NT1P3BE        | TVS  | \$1,540 | 82.5      | 340               | 10             | 45             |       |
| 1 1/2 | 3600 | 230/460 | 143VP | NT32P1BE       | TVS  | \$1,444 | 84.0      | 200               | 10             | 35             |       |
|       | 1800 | 230/460 | 145VP | NT32P2BE       | TVS  | \$1,312 | 86.5      | 300               | 10             | 45             |       |
|       | 1200 | 230/460 | 182VP | NT32P3BE       | TVS  | \$2,207 | 87.5      | 400               | 10             | 150            |       |
|       | 3600 | 230/460 | 145VP | NT2P1BE        | TVS  | \$1,526 | 85.5      | 220               | 10             | 45             |       |
| 2     | 1800 | 230/460 | 145VP | NT2P2BE        | TVS  | \$1,488 | 86.5      | 340               | 10             | 45             |       |
|       | 1200 | 230/460 | 184VP | NT2P3BE        | TVS  | \$2,639 | 88.5      | 450               | 10             | 170            |       |

Note LA Limited Availability

† All marks shown within this document are properties of their respective owners.



# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA® Premium Efficient – IE3, Vertical C-Face


**TCEF**

## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark)
- Shaft Slinger On Both Ends For IP54 Protection
- Regreasable Bearings 140 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 190/380V (140-250 Frame) or 380V (280 Frame & Larger)
- 1.15 Service Factor @ 60 Hz.
- Special Balance (< 0.08 In/Sec Vibration)
- Open Bearings 180-447 (Double Shielded Bearings on 140 Frame)
- Steel Canopy Cap/Drip Cover (Cast Iron on 140 Frame)
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA® Standard
- Zinc Plated Hardware

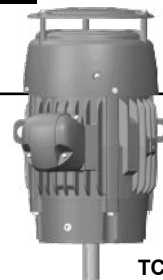
| HP    | RPM  | Voltage     | Frame  | Catalog Number | List    | Discount Symbol | SF   | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|--------|----------------|---------|-----------------|------|----------------|----------------|----------------|-------|
| 1     | 3600 | 208-230/460 | 143TC  | C1P1DCR        | \$818   | DS-3CE          | 1.15 | 65             | 80.0           | 2.9-2.7/1.4    | 03    |
|       | 1800 | 208-230/460 | 145TC  | C1P2DCR        | \$796   | DS-3CE          | 1.15 | 65             | 85.5           | 3.1-3/1.5      | 03    |
| 1 1/2 | 3600 | 208-230/460 | 143TC  | C32P1DCR       | \$891   | DS-3CE          | 1.15 | 65             | 84.0           | 4.2-3.9/2      | 03    |
|       | 1800 | 208-230/460 | 145TC  | C32P2DCR       | \$866   | DS-3CE          | 1.15 | 65             | 86.5           | 4.5-4.3/2.1    | 03    |
| 2     | 3600 | 208-230/460 | 145TC  | C2P1DCR        | \$1,013 | DS-3CE          | 1.15 | 70             | 86.5           | 5.5-4.9/2.4    | 03    |
|       | 1800 | 208-230/460 | 145TC  | C2P2DCR        | \$926   | DS-3CE          | 1.15 | 70             | 86.5           | 4-3.8/2        | 03    |
| 3     | 3600 | 208-230/460 | 182TC  | C3P1DCR        | \$1,122 | DS-3CE          | 1.15 | 100            | 87.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 208-230/460 | 182TC  | C3P2DCR        | \$1,021 | DS-3CE          | 1.15 | 100            | 89.5           | 8.4-7.8/3.9    | 03    |
| 5     | 3600 | 208-230/460 | 184TC  | C5P1DCR        | \$1,342 | DS-3CE          | 1.15 | 110            | 88.5           | 13.4-12.2/6.1  | 03    |
|       | 1800 | 208-230/460 | 184TC  | C5P2DCR        | \$1,145 | DS-3CE          | 1.15 | 110            | 89.5           | 13.7-12.5/6.3  | 03    |
| 7 1/2 | 3600 | 208-230/460 | 213TC  | C7P1DCR        | \$1,665 | DS-3CE          | 1.15 | 160            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 1800 | 208-230/460 | 213TC  | C7P2DCR        | \$1,536 | DS-3CE          | 1.15 | 160            | 91.7           | 20.1-18.6/9.3  | 03    |
| 10    | 3600 | 208-230/460 | 215TC  | C10P1DCR       | \$1,896 | DS-3CE          | 1.15 | 175            | 91.0           | 26.4-23.5/11.8 | 03    |
|       | 1800 | 208-230/460 | 215TC  | C10P2DCR       | \$1,789 | DS-3CE          | 1.15 | 175            | 91.7           | 26.5-23.9/12   | 03    |
| 15    | 3600 | 208-230/460 | 254TC  | C15P1DCR       | \$2,617 | DS-3CE          | 1.15 | 300            | 91.0           | 40-35/17.5     | 03    |
|       | 1800 | 208-230/460 | 254TC  | C15P2DCR       | \$2,396 | DS-3CE          | 1.15 | 300            | 92.4           | 40-37/18.4     | 03    |
| 20    | 3600 | 208-230/460 | 256TC  | C20P1DCR       | \$3,141 | DS-3CE          | 1.15 | 340            | 91.0           | 53-46/23.1     | 03    |
|       | 1800 | 208-230/460 | 256TC  | C20P2DCR       | \$2,856 | DS-3CE          | 1.15 | 340            | 93.0           | 52-47-23.5     | 03    |
| 25    | 3600 | 460         | 284TSC | C25P1FSCR      | \$3,913 | DS-3CE          | 1.15 | 380            | 91.7           | 29.4           | 03    |
|       | 1800 | 460         | 284TC  | C25P2FCR       | \$3,510 | DS-3CE          | 1.15 | 380            | 93.6           | 29.6           | 03    |
|       | 1800 | 460         | 284TSC | C25P2FSCR      | \$3,510 | DS-3CE          | 1.15 | 380            | 93.6           | 29.6           | 03    |
| 30    | 3600 | 460         | 286TSC | C30P1FSCR      | \$4,474 | DS-3CE          | 1.15 | 410            | 91.7           | 34             | 03    |
|       | 1800 | 460         | 286TC  | C30P2FCR       | \$3,983 | DS-3CE          | 1.15 | 410            | 93.6           | 34             | 03    |
|       | 1800 | 460         | 286TSC | C30P2FSCR      | \$3,983 | DS-3CE          | 1.15 | 410            | 93.6           | 34             | 03    |
| 40    | 3600 | 460         | 324TSC | C40P1FSCR      | \$5,824 | DS-3CE          | 1.15 | 600            | 92.4           | 46             | 03    |
|       | 1800 | 460         | 324TC  | C40P2FCR       | \$5,234 | DS-3CE          | 1.15 | 600            | 94.1           | 46             | 03    |
|       | 1800 | 460         | 324TSC | C40P2FSCR      | \$5,234 | DS-3CE          | 1.15 | 600            | 94.1           | 46             | 03    |
| 50    | 3600 | 460         | 326TSC | C50P1FSCR      | \$7,235 | DS-3CE          | 1.15 | 625            | 93.0           | 56             | 03    |
|       | 1800 | 460         | 326TC  | C50P2FCR       | \$6,221 | DS-3CE          | 1.15 | 625            | 94.5           | 56             | 03    |
|       | 1800 | 460         | 326TSC | C50P2FSCR      | \$6,221 | DS-3CE          | 1.15 | 625            | 94.5           | 56             | 03    |
| 60    | 3600 | 460         | 364TSC | C60P1FSCR      | \$9,632 | DS-3CE          | 1.15 | 750            | 93.6           | 68             | 03    |
|       | 1800 | 460         | 364TC  | C60P2FCR       | \$8,912 | DS-3CE          | 1.15 | 750            | 95.0           | 69             | 03    |
|       | 1800 | 460         | 364TSC | C60P2FSCR      | \$8,912 | DS-3CE          | 1.15 | 750            | 95.0           | 69             | 03    |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

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# General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient – IE3, Vertical C-Face

**NEMA**  
Premium


TCEF

(continued)

| HP  | RPM  | Voltage | Frame  | Catalog Number | List     | Discount Symbol | SF   | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes  |
|-----|------|---------|--------|----------------|----------|-----------------|------|----------------|----------------|----------------|--------|
| 75  | 3600 | 460     | 365TSC | C75P1FSCR      | \$11,801 | DS-3CE          | 1.15 | 910            | 93.6           | 83             | 03     |
|     | 1800 | 460     | 365TC  | C75P2FCR       | \$11,015 | DS-3CE          | 1.15 | 910            | 95.4           | 84             | 03     |
|     | 1800 | 460     | 365TSC | C75P2FSCR      | \$11,015 | DS-3CE          | 1.15 | 910            | 95.4           | 84             | 03     |
| 100 | 3600 | 460     | 405TSC | C100P1FSCR     | \$16,042 | DS-3CE          | 1.15 | 1300           | 94.1           | 112            | 03     |
|     | 1800 | 460     | 405TC  | C100P2FCR      | \$14,022 | DS-3CE          | 1.15 | 1300           | 95.4           | 113            | 03     |
|     | 1800 | 460     | 405TSC | C100P2FSCR     | \$14,022 | DS-3CE          | 1.15 | 1300           | 95.4           | 113            | 03     |
| 125 | 3600 | 460     | 444TSC | C125P1FSCR     | \$19,461 | DS-3CE          | 1.15 | 1660           | 95.0           | 144            | 03, 12 |
|     | 1800 | 460     | 444TC  | C125P2FCR      | \$16,896 | DS-3CE          | 1.15 | 1660           | 95.4           | 147            | 03     |
|     | 1800 | 460     | 444TSC | C125P2FSCR     | \$16,896 | DS-3CE          | 1.15 | 1660           | 95.4           | 147            | 03     |
| 150 | 3600 | 460     | 445TSC | C150P1FSCR     | \$23,468 | DS-3CE          | 1.15 | 1750           | 95.0           | 176            | 03, 12 |
|     | 1800 | 460     | 445TC  | C150P2FCR      | \$19,664 | DS-3CE          | 1.15 | 1750           | 95.8           | 171            | 03     |
|     | 1800 | 460     | 445TSC | C150P2FSCR     | \$19,664 | DS-3CE          | 1.15 | 1750           | 95.8           | 171            | 03     |
| 200 | 3600 | 460     | 447TSC | C200P1FSCR     | \$29,321 | DS-3CE          | 1.15 | 2100           | 95.4           | 220            | 03, 12 |
|     | 1800 | 460     | 447TC  | C200P2FCR      | \$23,716 | DS-3CE          | 1.15 | 2100           | 96.2           | 224            | 03     |
|     | 1800 | 460     | 447TSC | C200P2FSCR     | \$23,716 | DS-3CE          | 1.15 | 2100           | 96.2           | 224            | 03     |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

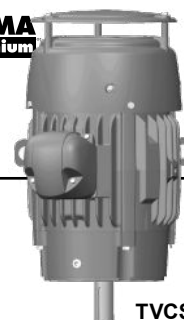
Note 12 Unidirectional Fan – CCW direction facing opposite drive end (FODE)

† All marks shown within this document are properties of their respective owners.



# Vertical Solid Shaft Normal Thrust P Base, Three Phase Totally Enclosed Fan Cooled (TEFC), CORRO-DUTY® NEMA®† Premium Efficient – IE3

**NEMA**  
Premium



TVCS

## APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

## FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate (with "CE" Mark)
- Shaft Slinger On Both Ends For IP54 Protection
- Type HP Shaft And Shaft/Flange Tolerances per NEMA® MG1-18.252
- Regreasable Bearings 140 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 190/380V (140-250 Frame) or 380V (280 Frame & Larger)
- 1.15 Service Factor @ 60 Hz.
- Special Balance (< 0.08 In/Sec Vibration)
- Upper Thrust Bearing
- Open Bearings 180-447 (Double Shielded Bearings on 140 Frame)
- Steel Canopy Cap/Drip Cover (Cast Iron on 140 Frame)
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA®† Standard
- Zinc Plated Hardware

| HP    | RPM  | Voltage     | Frame | Catalog Number | List     | Discount Symbol | SF   | Down Thrust (lbs) | Base Dia. (In) | Ship Wt. (lbs) | Full Load Eff. | Full Load Amps | Notes |
|-------|------|-------------|-------|----------------|----------|-----------------|------|-------------------|----------------|----------------|----------------|----------------|-------|
| 3     | 3600 | 208-230/460 | 182HP | CNT3P1DE       | \$1,459  | DS-7CE          | 1.15 | 300               | 10             | 165            | 87.5           | 8.4-7.8/3.9    | 03    |
|       | 1800 | 208-230/460 | 182HP | CNT3P2DE       | \$1,327  | DS-7CE          | 1.15 | 420               | 10             | 165            | 89.5           | 8.4-7.8/3.9    | 03    |
| 5     | 3600 | 208-230/460 | 184HP | CNT5P1DE       | \$1,745  | DS-7CE          | 1.15 | 300               | 10             | 180            | 88.5           | 13.4-12.2/6.1  | 03    |
|       | 1800 | 208-230/460 | 184HP | CNT5P2DE       | \$1,489  | DS-7CE          | 1.15 | 420               | 10             | 180            | 89.5           | 13.7-12.5/6.3  | 03    |
| 7 1/2 | 3600 | 208-230/460 | 213HP | CNT7P1DE       | \$2,165  | DS-7CE          | 1.15 | 460               | 10             | 220            | 91.0           | 19.9-17.8/8.9  | 03    |
|       | 1800 | 208-230/460 | 213HP | CNT7P2DE       | \$1,997  | DS-7CE          | 1.15 | 635               | 10             | 220            | 91.7           | 20.0-18.5/9.3  | 03    |
| 10    | 3600 | 208-230/460 | 215HP | CNT10P1DE      | \$2,465  | DS-7CE          | 1.15 | 460               | 10             | 230            | 91.0           | 26.4-23.5/11.8 | 03    |
|       | 1800 | 208-230/460 | 215HP | CNT10P2DE      | \$2,326  | DS-7CE          | 1.15 | 635               | 10             | 230            | 91.7           | 26.5-23.9/12.0 | 03    |
| 15    | 3600 | 208-230/460 | 254HP | CNT15P1DE      | \$3,140  | DS-7CE          | 1.15 | 800               | 10             | 395            | 91.0           | 40.0-35.0/17.5 | 03    |
|       | 1800 | 208-230/460 | 254HP | CNT15P2DE      | \$2,875  | DS-7CE          | 1.15 | 1110              | 10             | 395            | 92.4           | 40.0-37.0/18.4 | 03    |
| 20    | 3600 | 208-230/460 | 256HP | CNT20P1DE      | \$3,770  | DS-7CE          | 1.15 | 800               | 10             | 405            | 91.0           | 53.0-46.0/23.1 | 03    |
|       | 1800 | 208-230/460 | 256HP | CNT20P2DE      | \$3,427  | DS-7CE          | 1.15 | 1110              | 10             | 405            | 93.0           | 52.0-47.0/23.5 | 03    |
| 25    | 3600 | 460         | 284HP | CNT25P1FE      | \$4,696  | DS-7CE          | 1.15 | 940               | 10             | 500            | 91.7           | 29.4           | 03    |
|       | 1800 | 460         | 284HP | CNT25P2FE      | \$4,212  | DS-7CE          | 1.15 | 1295              | 10             | 500            | 93.6           | 29.1           | 03    |
| 30    | 3600 | 460         | 284HP | CNT30P1FE      | \$5,369  | DS-7CE          | 1.15 | 940               | 10             | 520            | 91.7           | 34             | 03    |
|       | 1800 | 460         | 286HP | CNT30P2FE      | \$4,780  | DS-7CE          | 1.15 | 1295              | 10             | 520            | 93.6           | 34             | 03    |
| 40    | 3600 | 460         | 324HP | CNT40P1FG      | \$6,698  | DS-7CE          | 1.15 | 1090              | 16-1/2         | 740            | 92.4           | 46             | 03    |
|       | 1800 | 460         | 324HP | CNT40P2FG      | \$6,020  | DS-7CE          | 1.15 | 1395              | 16-1/2         | 740            | 94.1           | 46             | 03    |
| 50    | 3600 | 460         | 326HP | CNT50P1FG      | \$8,320  | DS-7CE          | 1.15 | 1090              | 16-1/2         | 750            | 93.0           | 56             | 03    |
|       | 1800 | 460         | 326HP | CNT50P2FG      | \$7,154  | DS-7CE          | 1.15 | 1395              | 16-1/2         | 750            | 94.5           | 56             | 03    |
| 60    | 3600 | 460         | 364HP | CNT60P1FG      | \$11,077 | DS-7CE          | 1.15 | 1360              | 16-1/2         | 925            | 93.6           | 68             | 03    |
|       | 1800 | 460         | 364HP | CNT60P2FG      | \$10,294 | DS-7CE          | 1.15 | 1800              | 16-1/2         | 925            | 95.0           | 69             | 03    |
| 75    | 3600 | 460         | 365HP | CNT75P1FG      | \$13,571 | DS-7CE          | 1.15 | 1360              | 16-1/2         | 940            | 93.6           | 83             | 03    |
|       | 1800 | 460         | 365HP | CNT75P2FG      | \$12,667 | DS-7CE          | 1.15 | 1800              | 16-1/2         | 940            | 95.4           | 84             | 03    |
| 100   | 3600 | 460         | 405HP | CNT100P1FG     | \$18,448 | DS-7CE          | 1.15 | 1825              | 16-1/2         | 1600           | 94.5           | 112            | 03    |
|       | 1800 | 460         | 405HP | CNT100P2FG     | \$16,125 | DS-7CE          | 1.15 | 2300              | 16-1/2         | 1600           | 95.4           | 113            | 03    |
| 125   | 3600 | 460         | 444HP | CNT125P1FG     | \$22,380 | DS-7CE          | 1.15 | 1210              | 16-1/2         | 1900           | 95.8           | 142            | 03    |
|       | 1800 | 460         | 444HP | CNT125P2FG     | \$19,430 | DS-7CE          | 1.15 | 1530              | 16-1/2         | 1900           | 95.4           | 147            | 03    |
| 150   | 3600 | 460         | 445HP | CNT150P1FG     | \$26,988 | DS-7CE          | 1.15 | 1210              | 16-1/2         | 2000           | 95.8           | 171            | 03    |
|       | 1800 | 460         | 445HP | CNT150P2FG     | \$22,614 | DS-7CE          | 1.15 | 1530              | 16-1/2         | 2000           | 95.8           | 171            | 03    |
| 200   | 3600 | 460         | 447HP | CNT200P1FG     | \$33,720 | DS-7CE          | 1.15 | 1210              | 16-1/2         | 2300           | 96.2           | 217            | 03    |
|       | 1800 | 460         | 447HP | CNT200P2FG     | \$27,273 | DS-7CE          | 1.15 | 1530              | 16-1/2         | 2300           | 96.2           | 224            | 03    |

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 12 Unidirectional Fan – CCW direction facing opposite drive end (FODE)

† All marks shown within this document are properties of their respective owners.



# HOLLOSHAFT® Motors

## Steady Bushing Kits

### FEATURES:

Steady bushings are designed to fit HOLLOSHAFT® motors and will give the mechanical characteristics of a solid shaft motor. Be sure to enter steady bushings with the motor order. Steady bushings will be included with the motor attached to the skid for customer installation in the field. Product listed may not be available from stock.

| Frame   | Type   | Kit Part Number | Bore Size | List Price |
|---------|--------|-----------------|-----------|------------|
| 182-215 | AU, TU | 365649          | 0.750     | \$202      |
|         |        | 978141          | 0.875     | \$202      |
|         |        | 365650          | 1.000     | \$202      |
| 254-286 | AU, TU | 365651          | 0.750     | \$202      |
|         |        | 978142          | 0.875     | \$202      |
|         |        | 365657          | 1.000     | \$202      |
|         |        | 978143          | 1.063     | \$202      |
|         |        | 365659          | 1.188     | \$202      |
|         |        | 365662          | 1.250     | \$202      |
| 324-326 | RU, TU | 978147          | 1.000     | \$300      |
|         |        | 365666          | 1.188     | \$300      |
|         |        | 365667          | 1.250     | \$300      |
|         |        | 978148          | 1.313     | \$300      |
|         |        | 365668          | 1.438     | \$300      |
|         |        | 365669          | 1.500     | \$300      |
| 364-365 | RU     | 978147          | 1.000     | \$300      |
|         |        | 365666          | 1.188     | \$300      |
|         |        | 365667          | 1.250     | \$300      |
|         |        | 978148          | 1.313     | \$300      |
|         |        | 365668          | 1.438     | \$300      |
|         |        | 365669          | 1.500     | \$300      |
| 364-365 | TU     | 978149          | 1.000     | \$300      |
|         |        | 365670          | 1.188     | \$300      |
|         |        | 365671          | 1.250     | \$300      |
|         |        | 365672          | 1.438     | \$300      |
|         |        | 365673          | 1.500     | \$300      |
|         |        | 978150          | 1.563     | \$300      |
|         |        | 978151          | 1.625     | \$300      |
|         |        | 978153          | 1.688     | \$300      |
|         |        | 978152          | 1.750     | \$300      |
| 404-405 | RU     | 978154          | 1.188     | \$300      |
|         |        | 978155          | 1.250     | \$300      |
|         |        | 365674          | 1.438     | \$300      |
|         |        | 365675          | 1.500     | \$300      |
|         |        | 978156          | 1.563     | \$300      |
|         |        | 365676          | 1.688     | \$300      |
|         |        | 978157          | 1.813     | \$300      |
| 404-447 | TU     | 365677          | 1.438     | \$300      |
|         |        | 365678          | 1.500     | \$300      |
|         |        | 978158          | 1.563     | \$300      |
|         |        | 978159          | 1.625     | \$300      |
|         |        | 365679          | 1.688     | \$300      |
|         |        | 978160          | 1.750     | \$300      |
|         |        | 978161          | 1.875     | \$300      |
|         |        | 365680          | 1.938     | \$300      |

Discount Symbol: DS-7VS

† All marks shown within this document are properties of their respective owners.





# HOLLOSHAFT® Motors

## Steady Bushing Kits

### FEATURES:

Steady bushings are designed to fit HOLLOSHAFT® motors and will give the mechanical characteristics of a solid shaft motor. Be sure to enter steady bushings with the motor order. Steady bushings will be included with the motor attached to the skid for customer installation in the field. Product listed may not be available from stock.

| Frame    | Type     | Kit Part Number | Bore Size | List Price |
|----------|----------|-----------------|-----------|------------|
| H444-447 | RU       | 978162          | 1.313     | \$300      |
|          |          | 365677          | 1.438     | \$300      |
|          |          | 365678          | 1.500     | \$300      |
|          |          | 365679          | 1.688     | \$300      |
|          |          | 978160          | 1.750     | \$300      |
|          |          | 365680          | 1.938     | \$300      |
|          |          | 978163          | 2.125     | \$300      |
|          |          | 365681          | 2.188     | \$300      |
|          |          | 365682          | 2.250     | \$300      |
| 449      | HU, HUSI | 970273          | 1.688     | \$418      |
|          |          | 970274          | 1.938     | \$418      |
|          |          | 970275          | 2.125     | \$418      |
|          |          | 970276          | 2.188     | \$418      |
|          |          | 970277          | 2.375     | \$418      |
|          |          | 970278          | 2.438     | \$418      |
|          |          | 970279          | 2.500     | \$418      |
| 5008     | RU,RUS   | 492633-169*     | 1.688     | \$418      |
|          |          | 492633-194*     | 1.938     | \$418      |
|          |          | 492633-213*     | 2.125     | \$418      |
|          |          | 492633-219*     | 2.188     | \$418      |
|          |          | 492633-225*     | 2.250     | \$418      |
|          |          | 492633-238*     | 2.375     | \$418      |
|          |          | 492633-244*     | 2.438     | \$418      |
|          |          | 492633-250*     | 2.500     | \$418      |

Discount Symbol: DS-7VS

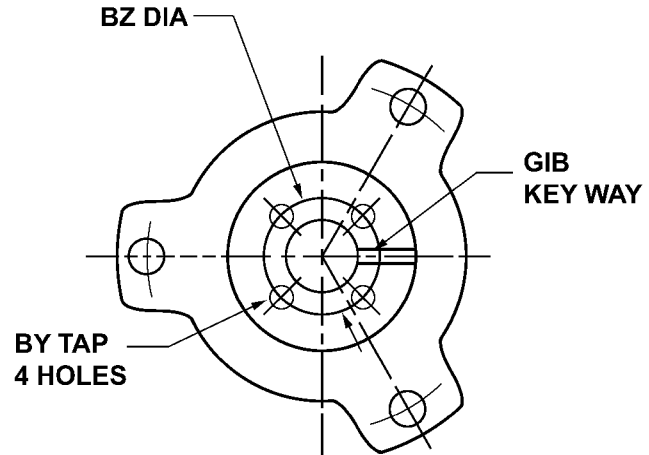
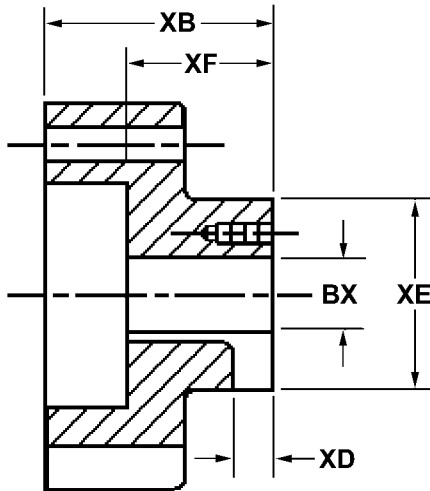
\* Product listed may not be available from stock.

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# HOLLOSHAFT®

## Drive Coupling Part Numbers



| Frame   | Type        | Part No. | Bore Size |        | Key   | BY     | BZ    | XB    | XD    | XE    | XF    |
|---------|-------------|----------|-----------|--------|-------|--------|-------|-------|-------|-------|-------|
|         |             |          | Nominal   | Actual |       |        |       |       |       |       |       |
| 182-215 | AU, TU, AUR | 159002   | 0.750     | 0.751  | 0.188 | 10-32  | 1.375 | 1.750 | 0.344 | 2.000 | 1.125 |
|         |             | 181107   | 0.875     | 0.876  | 0.188 | 10-32  | 1.375 | 1.750 | 0.406 | 2.000 | 1.125 |
|         |             | 159001   | 1.000     | 1.001  | 0.250 | 10-32  | 1.375 | 1.750 | 0.406 | 2.000 | 1.125 |
|         |             | 157744   | -         | 0.624  | -     | -      | -     | 1.750 | -     | 2.000 | 1.125 |
| 254-256 | AU, TU, AUC | 174431   | 0.750     | 0.751  | 0.188 | 10-32  | 1.375 | 2.563 | 0.344 | 2.250 | 1.625 |
|         |             | 181105   | 0.875     | 0.876  | 0.188 | 10-32  | 1.375 | 2.563 | 0.344 | 2.250 | 1.625 |
|         |             | B 102999 | 1.000     | 1.001  | 0.250 | 10-32  | 1.375 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | 779353*  | 1.063     | 1.063  | 0.250 | 10-32  | 1.375 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | B 104720 | 1.188     | 1.188  | 0.250 | .25-20 | 1.750 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | 152434   | 1.250     | 1.251  | 0.250 | .25-20 | 1.750 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | 366983   | 1.250     | 1.251  | 0.375 | .25-20 | 1.750 | 2.563 | 0.531 | 2.250 | 1.625 |
|         |             | B 102986 | -         | 0.751  | -     | -      | -     | 2.563 | -     | 2.250 | 1.625 |
| 284-286 | AU, TU      | 174431   | 0.750     | 0.751  | 0.188 | 10-32  | 1.375 | 2.563 | 0.344 | 2.250 | 1.625 |
|         |             | 181105   | 0.875     | 0.876  | 0.188 | 10-32  | 1.375 | 2.563 | 0.344 | 2.250 | 1.625 |
|         |             | B 102999 | 1.000     | 1.001  | 0.250 | 10-32  | 1.375 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | 779353*  | 1.063     | 1.063  | 0.250 | 10-32  | 1.375 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | B 104720 | 1.188     | 1.188  | 0.250 | .25-20 | 1.750 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | 152434   | 1.250     | 1.251  | 0.250 | .25-20 | 1.750 | 2.563 | 0.406 | 2.250 | 1.625 |
|         |             | 366983   | 1.250     | 1.251  | 0.375 | .25-20 | 1.750 | 2.563 | 0.531 | 2.250 | 1.625 |
|         |             | B 102986 | -         | 0.751  | -     | -      | -     | 2.563 | -     | 2.250 | 1.625 |

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# HOLLOSHAFT®

## Drive Coupling Part Numbers

| Frame   | Type  | Part No. | Bore Size |        | Key   | BY     | BZ    | XB    | XD    | XE    | XF    |
|---------|-------|----------|-----------|--------|-------|--------|-------|-------|-------|-------|-------|
|         |       |          | Nominal   | Actual |       |        |       |       |       |       |       |
| 324-326 | RU,TU | 136731   | 1.000     | 1.001  | 0.250 | 10-32  | 1.375 | 2.938 | 0.406 | 2.875 | 1.938 |
|         |       | 132607   | 1.188     | 1.188  | 0.250 | .25-20 | 1.750 | 2.938 | 0.406 | 2.875 | 1.938 |
|         |       | 162458   | 1.250     | 1.251  | 0.250 | .25-20 | 1.750 | 2.938 | 0.406 | 2.875 | 1.938 |
|         |       | 132608   | 1.250     | 1.251  | 0.375 | .25-20 | 1.750 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | 795905*  | 1.313     | 1.313  | 0.375 | .25-20 | 1.750 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | 132609   | 1.438     | 1.438  | 0.375 | .25-20 | 2.125 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | 132610   | 1.500     | 1.501  | 0.375 | .25-20 | 2.125 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | B 108565 | -         | 0.751  | -     | -      | -     | 2.938 | -     | 2.875 | 1.938 |
| 364-365 | TU    | 471208*  | 1.000     | 1.001  | 0.250 | .25-20 | 1.750 | 3.813 | 0.406 | 3.875 | 2.750 |
|         |       | 172313   | 1.188     | 1.188  | 0.250 | .25-20 | 1.750 | 3.813 | 0.406 | 3.875 | 2.750 |
|         |       | 172315   | 1.250     | 1.251  | 0.250 | .25-20 | 1.750 | 3.813 | 0.406 | 3.875 | 2.750 |
|         |       | 366985   | 1.250     | 1.251  | 0.375 | .25-20 | 1.750 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 172314   | 1.438     | 1.438  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118296   | 1.500     | 1.501  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 929360*  | 1.563     | 1.563  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 789957*  | 1.625     | 1.626  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118297*  | 1.688     | 1.688  | 0.375 | .25-20 | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118298*  | 1.750     | 1.751  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118295   | -         | 0.751  | -     | -      | -     | 3.813 | -     | 3.875 | 2.750 |
|         |       |          |           |        |       |        |       |       |       |       |       |
| 364-365 | RU    | 136731   | 1.000     | 1.001  | 0.250 | 10-32  | 1.375 | 2.938 | 0.406 | 2.875 | 1.938 |
|         |       | 132607   | 1.188     | 1.188  | 0.250 | .25-20 | 1.750 | 2.938 | 0.406 | 2.875 | 1.938 |
|         |       | 162458   | 1.250     | 1.251  | 0.250 | .25-20 | 1.750 | 2.938 | 0.406 | 2.875 | 1.938 |
|         |       | 132608   | 1.250     | 1.251  | 0.375 | .25-20 | 1.750 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | 795905*  | 1.313     | 1.313  | 0.375 | .25-20 | 1.750 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | 132609   | 1.438     | 1.438  | 0.375 | .25-20 | 2.125 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | 132610   | 1.500     | 1.501  | 0.375 | .25-20 | 2.125 | 2.938 | 0.531 | 2.875 | 1.938 |
|         |       | B 108565 | -         | 0.751  | -     | -      | -     | 2.938 | -     | 2.875 | 1.938 |
| 404-405 | TU    | 172314   | 1.438     | 1.438  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118296   | 1.500     | 1.501  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 929360*  | 1.563     | 1.563  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 789957*  | 1.625     | 1.626  | 0.375 | .25-20 | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118297   | 1.688     | 1.688  | 0.375 | .25-20 | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118298*  | 1.750     | 1.751  | 0.375 | .25-20 | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 926393*  | 1.875     | 1.876  | 0.500 | .25-20 | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|         |       | 118299*  | 1.938     | 1.938  | 0.500 | .25-20 | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
| 404-405 | RU    | 133000   | 1.188     | 1.188  | 0.250 | .25-20 | 1.750 | 3.406 | 0.406 | 3.125 | 2.406 |
|         |       | 707806*  | 1.250     | 1.251  | 0.250 | .25-20 | 1.750 | 3.406 | 0.406 | 3.125 | 2.406 |
|         |       | 661856   | 1.250     | 1.251  | 0.375 | .25-20 | 1.750 | 3.406 | 0.531 | 3.125 | 2.406 |
|         |       | 133002   | 1.438     | 1.438  | 0.375 | .25-20 | 2.125 | 3.406 | 0.531 | 3.125 | 2.406 |
|         |       | 133003   | 1.500     | 1.501  | 0.375 | .25-20 | 2.125 | 3.406 | 0.531 | 3.125 | 2.406 |
|         |       | 766777*  | 1.563     | 1.563  | 0.375 | .25-20 | 2.500 | 3.406 | 0.531 | 3.125 | 2.406 |
|         |       | 149451   | 1.688     | 1.688  | 0.375 | .25-20 | 2.500 | 3.406 | 0.531 | 3.125 | 2.406 |
|         |       | 928124*  | 1.813     | 1.813  | 0.375 | .25-20 | 2.500 | 3.406 | 0.531 | 3.125 | 2.406 |
|         |       | 133005   | -         | 0.751  | -     | -      | -     | 3.406 | -     | 3.125 | 2.406 |

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# HOLLOSHAFT®

## Drive Coupling Part Numbers

| Frame    | Type     | Part No. | Bore Size |        | Key   | BY      | BZ    | XB    | XD    | XE    | XF    |
|----------|----------|----------|-----------|--------|-------|---------|-------|-------|-------|-------|-------|
|          |          |          | Nominal   | Actual |       |         |       |       |       |       |       |
| 444-447  | TU       | 172314   | 1.438     | 1.438  | 0.375 | .25-20  | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 118296   | 1.500     | 1.501  | 0.375 | .25-20  | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 929360*  | 1.563     | 1.563  | 0.375 | .25-20  | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 789957*  | 1.625     | 1.626  | 0.375 | .25-20  | 2.125 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 118297   | 1.688     | 1.688  | 0.375 | .25-20  | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 118298   | 1.750     | 1.751  | 0.375 | .25-20  | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 926393*  | 1.875     | 1.876  | 0.500 | .25-20  | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
|          |          | 118299   | 1.938     | 1.938  | 0.500 | .25-20  | 2.500 | 3.813 | 0.531 | 3.875 | 2.750 |
| H444-447 | RU       | 945496*  | 1.313     | 1.313  | 0.375 | .25-20  | 2.125 | 4.000 | 0.688 | 3.688 | 2.875 |
|          |          | 132576   | 1.438     | 1.438  | 0.375 | .25-20  | 2.125 | 4.000 | 0.688 | 3.688 | 2.875 |
|          |          | 132577   | 1.500     | 1.501  | 0.375 | .25-20  | 2.125 | 4.000 | 0.531 | 3.688 | 2.875 |
|          |          | 132578   | 1.688     | 1.688  | 0.375 | .25-20  | 2.500 | 4.000 | 0.531 | 3.688 | 2.875 |
|          |          | 742204*  | 1.750     | 1.751  | 0.375 | .25-20  | 2.500 | 4.000 | 0.531 | 3.688 | 2.875 |
|          |          | 132579   | 1.938     | 1.938  | 0.500 | .25-20  | 2.500 | 4.000 | 0.688 | 3.688 | 2.875 |
|          |          | 934083*  | 2.125     | 2.126  | 0.500 | .375-16 | 3.250 | 4.000 | 0.688 | 4.000 | 2.875 |
|          |          | 136874   | 2.188     | 2.188  | 0.500 | .375-16 | 3.250 | 4.000 | 0.688 | 4.000 | 2.875 |
|          |          | 136875   | 2.250     | 2.251  | 0.500 | .375-16 | 3.250 | 4.000 | 0.688 | 4.000 | 2.875 |
|          |          | 131805   | -         | 0.751  | -     | -       | -     | 4.000 | -     | 3.688 | 2.875 |
|          |          |          |           |        |       |         |       |       |       |       |       |
| 5008     | RU, RUEI | 129679   | 1.688     | 1.688  | 0.375 | .25-20  | 2.500 | 4.375 | 0.531 | 4.750 | 3.063 |
|          |          | A 113288 | 1.938     | 1.938  | 0.500 | .25-20  | 2.500 | 4.375 | 0.688 | 4.750 | 3.063 |
|          |          | A 113287 | 2.125     | 2.126  | 0.500 | .375-16 | 3.250 | 4.375 | 0.688 | 4.750 | 3.063 |
|          |          | A 113289 | 2.188     | 2.188  | 0.500 | .375-16 | 3.250 | 4.375 | 0.688 | 4.750 | 3.063 |
|          |          | 863877   | 2.250     | 2.251  | 0.500 | .375-16 | 3.250 | 4.375 | 0.688 | 4.750 | 3.063 |
|          |          | A 113313 | 2.375     | 2.376  | 0.625 | .375-16 | 3.250 | 4.375 | 25/32 | 4.750 | 3.063 |
|          |          | A 113290 | 2.438     | 2.438  | 0.625 | .375-16 | 3.250 | 4.375 | 25/32 | 4.750 | 3.063 |
|          |          | A 113314 | 2.500     | 2.501  | 0.625 | .375-16 | 3.750 | 4.375 | 25/32 | 4.750 | 3.063 |
|          |          | A 113285 | -         | 0      | -     | -       | -     | 4.375 | -     | 4.750 | 3.063 |

† All marks shown within this document are properties of their respective owners.



# Kits & Accessories

## Fractional & Integral Horsepower Motors



## A Variety of Kits & Accessories Available for Field Conversion

Kits & Accessories are available for easy and quick field conversions of many U.S. MOTORS® brand fractional and integral stock motor products. The following pages outline our current available kits and accessories.

Refer to the description field on the Fractional Horsepower Motor (FHP) Accessories page to identify the correct kit or accessory for your stock FHP motor application.

Use the chart below to assist in identifying the correct kit or accessory for your stock Integral Horsepower motor application.

### Integral Horsepower Motor Type Code Identification Chart:

| Type Code         | Motor Description                     | Phase       | Efficiency         |
|-------------------|---------------------------------------|-------------|--------------------|
| CARB <sup>†</sup> | Compact Aligning Roller Bearing       |             |                    |
| CE                | 841 PLUS® Motor                       | Three Phase | Premium Efficient  |
| CTE               | Hostile Duty TEFC Motor               | Three Phase | Premium Efficient  |
| CTI               | Hostile Duty TEFC Motor               | Three Phase | Inverter Duty      |
| FCT               | Hostile Duty TEFC Motor               | Three Phase | Energy Efficient   |
| FD, FR            | Open Dripproof Motor                  | Three Phase | Energy Efficient   |
| DE, RE            | Open Dripproof Motor                  | Three Phase | Premium Efficient  |
| FUT               | UNIMOUNT® TEFC Motor                  | Three Phase | Energy Efficient   |
| J                 | TITAN® TEFC Motor                     |             |                    |
| JAD               | Automotive Duty Motor                 | Three Phase | Energy Efficient   |
| JCE               | TITAN® TEFC Motor & CORRO-DUTY® Motor |             | Premium Efficient  |
| JDE               | Automotive Duty Motor                 | Three Phase | Premium Efficient  |
| TCE               | CORRO-DUTY® TEFC Motor                | Three Phase | Premium Efficient  |
| TCI               | CORRO-DUTY® TEFC Motor                | Three Phase | Inverter Duty      |
| UT                | UNIMOUNT® TEFC Motor                  | Three Phase | Standard Efficient |
| UTE               | UNIMOUNT® TEFC Motor                  | Three Phase | Premium Efficient  |
| UTF               | UNIMOUNT® TEFC Footless Motor         | Three Phase | Standard Efficient |
| UTNX              | ACCU-Torq® Motor                      | Three Phase | Vector Duty        |

If you need assistance with available Kits & Accessories, contact your Territory Manager or Customer Service Representative.

**Phone: 855-487-6686**

**Fax: 800-899-2887**

<sup>†</sup> All marks shown within this document are properties of their respective owners.

## C-Face Kits

### APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a C Flange Mount.

### Hostile Duty Type CTE, CTI Automotive Duty Type JDE

| Frame | Catalog Number | List  | Discount Symbol | AK Dimension | Notes      |
|-------|----------------|-------|-----------------|--------------|------------|
| 140   | 888910         | \$150 | DS-3TE          | 4-1/2"       | 40         |
| 180   | 2002477        | \$217 | DS-3TE          | 4-1/2"       | 40,CTE,JDE |
|       | 2002475        | \$200 | DS-3TE          | 8-1/2"       | 40         |
| 210   | 2002518        | \$275 | DS-3TE          | 8-1/2"       | 40         |
| 250   | 649894         | \$320 | DS-3TE          | 8-1/2"       | 40,41      |
| 280   | 646574         | \$383 | DS-3TE          | 10-1/2"      | 41         |
| 320   | 2003209        | \$550 | DS-3TE          | 12-1/2"      | 41         |
| 360   | 2003135        | \$750 | DS-3TE          | 12-1/2"      | 41         |

### Hostile Duty Type CTE, CTI Automotive Duty Type JDE

| Frame | Catalog Number | List    | Discount Symbol | AK Dimension | Notes     |
|-------|----------------|---------|-----------------|--------------|-----------|
| 400   | 646592         | \$1,250 | DS-3TE          | 12-1/2"      | 42,Not CE |
| 440   | 427503         | \$1,583 | DS-3TE          | 16"          |           |
| 440TS | 427505         | \$1,583 | DS-3TE          | 16"          | Not CE    |

### UNIMOUNT® Type UTE

| Frame  | Catalog Number | List  | Discount Symbol | AK Dimension | Notes |
|--------|----------------|-------|-----------------|--------------|-------|
| 56-140 | 374790         | \$60  | DS-3TE          | 4-1/2"       |       |
| 180    | 362842         | \$120 | DS-3TE          | 8-1/2"       |       |
|        | 362843         | \$90  | DS-3TE          | 4-1/2"       |       |
| 210    | 365033         | \$110 | DS-3TE          | 8-1/2"       |       |
| 250    | 365568         | \$160 | DS-3TE          | 8-1/2"       |       |
| 280    | 370421         | \$333 | DS-3TE          | 10-1/2"      |       |

### CORRO-DUTY® & 841 PLUS® Severe Duty Types TCE, TCI & CE

| Frame | Catalog Number | List    | Discount Symbol | AK Dimension | Notes        |
|-------|----------------|---------|-----------------|--------------|--------------|
| 140   | 430512         | \$200   | DS-3TE          | 4-1/2"       | 40,Not CE    |
| 180   | 427672         | \$242   | DS-3TE          | 4-1/2"       | 40           |
|       | 427670         | \$242   | DS-3TE          | 8-1/2"       | 40           |
| 210   | 425854         | \$292   | DS-3TE          | 8-1/2"       | 40           |
| 250   | 426051         | \$375   | DS-3TE          | 8-1/2"       | 40           |
| 280   | 428973         | \$417   | DS-3TE          | 10-1/2"      |              |
| 320   | 424742         | \$583   | DS-3TE          | 12-1/2"      |              |
| 360   | 427416         | \$783   | DS-3TE          | 12-1/2"      |              |
| 400   | 646592         | \$1,250 | DS-3TE          | 12-1/2"      | Not CE,AP    |
| 440   | 427503         | \$1,583 | DS-3TE          | 16"          | 42,Not CE,AP |
| 440TS | 427505         | \$1,583 | DS-3TE          | 16"          | Not CE,AP    |

### CORRO-DUTY® Type JCE

| Frame    | Catalog Number | List    | Discount Symbol | AK Dimension | Notes |
|----------|----------------|---------|-----------------|--------------|-------|
| 449T     | 2042521        | \$2,030 | DS-3TE          | 16"          |       |
| 449TS/TM | 2042522        | \$2,030 | DS-3TE          | 16"          |       |
| 449T     | 2042521        | \$2,030 | DS-3TE          | 16"          | 42    |
| 449TS/TM | 2042522        | \$2,030 | DS-3TE          | 16"          |       |

### 841 PLUS® Type CE

| Frame | Catalog Number | List    | Discount Symbol | AK Dimension | Notes |
|-------|----------------|---------|-----------------|--------------|-------|
| 400   | 646591         | \$1,250 | DS-3TE          | 12-1/2"      |       |
| 440   | 427503         | \$1,583 | DS-3TE          | 16"          | 42    |

Note 40 Non-NEMA® "BA" Dimension  
 Note 41 Pulley End Bearing Clamp Provision  
 Note 42 Not Useable on Short Shaft  
 Note AP Can be used for CTE, JDE

Note 449T Model must have 6220 Drive End Brg. & 6315 Opp. Drive End Brg.  
 449TS/TM Model must have 6315 Drive End Brg. & 6315 Opp. Drive End Brg.

† All marks shown within this document are properties of their respective owners.



## D Flange Kits

### APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a D Flange Mount.

#### Hostile Duty Type CTE Automotive Duty Type JDE

| Frame | Catalog Number | List  | Discount Symbol | AK Dimension | Notes |
|-------|----------------|-------|-----------------|--------------|-------|
| 140   | 888916         | \$233 | DS-3TE          | 9"           | 40    |
| 180   | 2002476        | \$250 | DS-3TE          | 9"           | 40    |
| 210   | 2002519        | \$333 | DS-3TE          | 9"           | 40    |
| 250   | 649896         | \$467 | DS-3TE          | 11"          | 40,41 |
| 280   | 646575         | \$583 | DS-3TE          | 11"          | 41    |
| 320   | 2003210        | \$650 | DS-3TE          | 14"          |       |
| 360   | 2003139        | \$850 | DS-3TE          | 14"          | 42    |

#### CORRO-DUTY® & 841 PLUS® Types TCE, CTI & CE

| Frame | Catalog Number | List    | Discount Symbol | AK Dimension | Notes  |
|-------|----------------|---------|-----------------|--------------|--------|
| 180   | 427671         | \$267   | DS-3TE          | 9"           | 40     |
| 210   | 425855         | \$342   | DS-3TE          | 9"           | 40     |
| 250   | 426052         | \$475   | DS-3TE          | 11"          | 40     |
| 280   | 428974         | \$542   | DS-3TE          | 11"          |        |
| 320   | 437236         | \$667   | DS-3TE          | 14"          |        |
| 360   | 437238         | \$908   | DS-3TE          | 14"          |        |
| 400   | 646590         | \$1,317 | DS-3TE          | 18"          | Not CE |
| 440T  | 476030         | \$1,658 | DS-3TE          | 18"          | 42     |
| 440TS | 474395         | \$1,658 | DS-3TE          | 18"          |        |

#### 841 PLUS® Type CE

| Frame | Catalog Number | List    | Discount Symbol | AK Dimension | Notes |
|-------|----------------|---------|-----------------|--------------|-------|
| 400   | 646589         | \$1,250 | DS-3TE          | 12-1/2"      |       |
| 440   | 476030         | \$1,583 | DS-3TE          | 16"          | 42    |

#### UNIMOUNT® Type UTE, UTN & UTNX

| Frame | Catalog Number | List  | Discount Symbol | AK Dimension | Notes |
|-------|----------------|-------|-----------------|--------------|-------|
| 140   | 369268         | \$175 | DS-3TE          | 9"           | 40    |
| 180   | 369269         | \$208 | DS-3TE          | 9"           |       |
| 210   | 430514         | \$317 | DS-3TE          | 9"           |       |
| 250   | 430515         | \$400 | DS-3TE          | 11"          |       |
| 280   | 430516         | \$417 | DS-3TE          | 11"          |       |

#### CORRO-DUTY® Type JCE

| Frame    | Catalog Number | List    | Discount Symbol | AK Dimension | Notes |
|----------|----------------|---------|-----------------|--------------|-------|
| 449T     | 2042523        | \$2,126 | DS-3TE          | 18"          |       |
| 449TS/TM | 2042524        | \$2,126 | DS-3TE          | 18"          |       |
| 449T     | 2042523        | \$2,126 | DS-3TE          | 18"          | 42    |
| 449TS/TM | 2042524        | \$2,126 | DS-3TE          | 18"          |       |

Note 40 Non-NEMA®† "BA" Dimension

Note 41 Pulley End Bearing Clamp Provision

Note 42 Not Useable on Short Shaft

Note 449T Model must have 6220 Drive End Brg. & 6315 Opp. Drive End Brg.

449TS/TM Model must have 6315 Drive End Brg. & 6315 Opp. Drive End Brg.

† All marks shown within this document are properties of their respective owners.



## Dripcover Kits

### APPLICATIONS:

Provides protection to the motor in a vertical shaft down position.

### UNIMOUNT®

#### Types UTE, UTF, UT, UTE4, UT1 & UT4

| Frame   | Catalog Number | List  | Discount Symbol | Notes |
|---------|----------------|-------|-----------------|-------|
| 56-140  | 362108         | \$100 | DS-3TE          |       |
| 180     | 362260         | \$172 | DS-3TE          |       |
| 210     | 365035         | \$192 | DS-3TE          |       |
| 250-280 | 370422         | \$222 | DS-3TE          |       |

### Open Dripproof

#### Types FD, FR, DF4, DF1, FD1, FD4, D1 & D4

| Frame | Catalog Number | List  | Discount Symbol | Notes |
|-------|----------------|-------|-----------------|-------|
| 140   | 969573         | \$100 | DS-3TE          |       |
| 180   | 969574         | \$172 | DS-3TE          |       |
| 210   | 969575         | \$192 | DS-3TE          |       |
| 250   | 472131         | \$233 | DS-3TE          |       |
| 280   | 969578         | \$267 | DS-3TE          |       |
| 320   | 969579         | \$300 | DS-3TE          |       |

### Hostile Duty, Severe Duty & 841 PLUS®

#### Types CTE, CTI, TCE & CE

| Frame | Catalog Number | List    | Discount Symbol | Notes |
|-------|----------------|---------|-----------------|-------|
| 140   | 967059         | \$150   | DS-3TE          | 44    |
| 180   | 967060         | \$250   | DS-3TE          | 44    |
| 210   | 967061         | \$275   | DS-3TE          | 44    |
| 250   | 967062         | \$333   | DS-3TE          | 45    |
| 280   | 967063         | \$517   | DS-3TE          |       |
| 320   | 639886         | \$700   | DS-3TE          |       |
| 360   | 967065         | \$1,133 | DS-3TE          |       |
| 400   | 967066         | \$1,583 | DS-3TE          |       |
| 440   | 967067         | \$1,800 | DS-3TE          |       |

### Fractional Horsepower Pump Motors

| Frame | Catalog Number | List | Discount Symbol | Notes |
|-------|----------------|------|-----------------|-------|
| 48    | DC48           | \$42 | DS-3TE          |       |
| 56    | DC56           | \$42 | DS-3TE          |       |

Note 44 Requires Cast Iron Fan Cover Kit for CTE & CTI Types

Note 45 Not to be used on Foot Mounted Motor

† All marks shown within this document are properties of their respective owners.





## Cast Iron Conversion Kits

### APPLICATIONS:

For severe environments where all Cast Iron construction is required.

### Cast Iron Conduit Box Kits

#### Hostile Duty Types CTE & CTI

| Frame | Catalog Number | List    | Discount Symbol | Notes |
|-------|----------------|---------|-----------------|-------|
| 140   | 885267         | \$150   | DS-3TE          |       |
| 180   | 885268         | \$162   | DS-3TE          |       |
| 210   | 885269         | \$193   | DS-3TE          |       |
| 250   | 885270         | \$212   | DS-3TE          |       |
| 280   | 895716         | \$233   | DS-3TE          |       |
| 320   | 416477         | \$243   | DS-3TE          |       |
| 360   | 425917         | \$343   | DS-3TE          |       |
| 400   | 888949         | \$343   | DS-3TE          |       |
| 440   | 888950         | \$833   | DS-3TE          |       |
| 449   | 498926         | \$1,375 | DS-3TE          |       |

### Cast Iron Fan Cover Kits

#### Hostile Duty Types CTE & CTI

| Frame | Catalog Number | List    | Discount Symbol | Notes |
|-------|----------------|---------|-----------------|-------|
| 140   | 885271         | \$125   | DS-3TE          |       |
| 180   | 885272         | \$137   | DS-3TE          |       |
| 210   | 885273         | \$212   | DS-3TE          |       |
| 250   | 885274         | \$330   | DS-3TE          |       |
| 280   | 885275         | \$400   | DS-3TE          |       |
| 320   | 416476         | \$417   | DS-3TE          |       |
| 360   | 425916         | \$755   | DS-3TE          |       |
| 400   | 888953         | \$1,223 | DS-3TE          |       |
| 440   | 888954         | \$1,355 | DS-3TE          |       |

## Bases & Slide Rail Kits

### APPLICATIONS:

Adjustable Motor Bases and Slide Rails Kits.

### Adjustable Motor Base Kits

(404 – 449 frame bases have 2 adjusting screws, others have 1 screw)

| Frame | Catalog Number | List  | Discount Symbol | Notes |
|-------|----------------|-------|-----------------|-------|
| 284   | 70911          | \$200 | DS-3TE          |       |
| 286   | 70912          | \$200 | DS-3TE          |       |
| 324   | 70913          | \$280 | DS-3TE          |       |
| 326   | 70914          | \$280 | DS-3TE          |       |
| 364   | 70915          | \$492 | DS-3TE          |       |
| 365   | 70916          | \$492 | DS-3TE          |       |
| 404   | X667470        | \$550 | DS-3TE          |       |
| 405   | X667471        | \$550 | DS-3TE          |       |
| 444   | X667472        | \$700 | DS-3TE          |       |
| 445   | X667473        | \$700 | DS-3TE          |       |
| 447   | X256871        | \$800 | DS-3TE          |       |
| 449   | X263975        | \$800 | DS-3TE          |       |

### Slide Rail Kits

(Rail Kit includes 2 rails and hardware)

| Frame | Catalog Number | List    | Discount Symbol | Notes |
|-------|----------------|---------|-----------------|-------|
| 280   | 179038         | \$340   | DS-3TE          |       |
| 320   | 179039         | \$460   | DS-3TE          |       |
| 360   | 179040         | \$590   | DS-3TE          |       |
| 400   | 179112         | \$1,180 | DS-3TE          |       |
| 440   | 181635         | \$1,600 | DS-3TE          |       |

## Brake Kits

### APPLICATIONS:

For UNIMOUNT® Motors in applications requiring quick stop and/or controlled hold.

### UNIMOUNT®

#### Types UTE, UTI, UTF & UT

| Frame  | Rating<br>(FT-LB) | Voltage<br>at 60 Hz | Catalog<br>Number | List    | Discount<br>Symbol | Notes |
|--------|-------------------|---------------------|-------------------|---------|--------------------|-------|
| 56-140 | 1.5               | 230/460             | 964220            | \$441   | DS-BKT             |       |
|        |                   | 575                 | 964221            | \$441   | DS-BKT             |       |
| 56-140 | 3                 | 115/230             | 964226            | \$510   | DS-BKT             |       |
|        |                   | 230/460             | 964223            | \$510   | DS-BKT             |       |
|        |                   | 575                 | 964224            | \$510   | DS-BKT             |       |
| 56-140 | 6                 | 125/250             | 958191            | \$691   | DS-BKT             |       |
|        |                   | 230/460             | 964225            | \$607   | DS-BKT             |       |
|        |                   | 575                 | 964222            | \$607   | DS-BKT             |       |
| 56-140 | 10                | 230/460             | 964227            | \$984   | DS-BKT             |       |
| 180    | 10                | 125/250             | 964252            | \$1,017 | DS-BKT             |       |
|        |                   | 230/460             | 958195            | \$984   | DS-BKT             |       |
|        |                   | 575                 | 958194            | \$984   | DS-BKT             |       |
| 180    | 15                | 230/460             | 958193            | \$1,086 | DS-BKT             |       |
|        |                   | 575                 | 958192            | \$1,086 | DS-BKT             |       |
| 210    | 25                | 230/460             | 364963            | \$1,806 | DS-BKT             | 46    |
|        |                   | 575                 | 364966            | \$1,806 | DS-BKT             | 46    |
| 210    | 35                | 230/460             | 364964            | \$2,055 | DS-BKT             |       |
|        |                   | 575                 | 364967            | \$2,055 | DS-BKT             | 46    |

All 230/460 Volt, 60 Hz Brakes are nameplated and designed for use on 190/380 Volt, 50 Hz rated at ft-lb per above.

All 125/250 Volt, 60 Hz Brakes are suitable for 160/220 Volt, 50 Hz at ft-lb per above.

Approved mounting positions are shown in the table below by "X".

For any other positions required, contact Customer Service and state position on order. Vertical mounting is defined as 15 degrees or more from horizontal.

| Brake<br>Rating<br>Ft-Lb | Motor & Brake Horizontal<br>Solenoid Position - Degrees From Vertical |   |   |   |   |   | Motor & Brake Vertical |           |
|--------------------------|-----------------------------------------------------------------------|---|---|---|---|---|------------------------|-----------|
|                          | 0                                                                     | 0 | 0 | 0 | 0 | 0 | Brake High             | Brake Low |
| 1.5, 3, 6                | X                                                                     | X | X | X | X | X | X                      | X         |
| 10, 15                   | X                                                                     | X | X | X | X | X | X                      | X         |
| 25, 35                   | X                                                                     |   |   |   |   |   |                        | X         |

A Start/Stop cycle of no more than one stop per minute is acceptable for these brakes when used in conjunction with a Motor and Reducer. Contact Customer Service when shorter cycles are required or when used with high inertia applications, overhung loads or when not used with a reducer.

Note 46 25 and 35 ft-lb for horizontal mounting only

† All marks shown within this document are properties of their respective owners.



## Fan Kits

### APPLICATIONS:

Most 440 frame & larger TEFC 2 Pole motors (and some TITAN® TEFC 4 pole) are standard with uni-directional fans (CCW facing opposite drive end). These fan kits are to convert the motors to clockwise rotation facing opposite drive end.

### Clockwise (CW) Rotation Fan Kits for Standard 440-5800 TEFC Motors

| Standard<br>M/N | HP  | Poles | Frame | Type | Current<br>Stock Fan<br>Direction | Fan<br>Material | Conversion<br>CW Fan Kit | List    | Discount<br>Symbol |
|-----------------|-----|-------|-------|------|-----------------------------------|-----------------|--------------------------|---------|--------------------|
| ALL             | 125 | 2     | 444   | CE   | CCW                               | Bronze          | 966090                   | \$2,425 | DS-3TE             |
| ALL             | 150 | 2     | 445   | CE   | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 200 | 2     | 447   | CE   | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 125 | 2     | 444   | CTE  | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 150 | 2     | 445   | CTE  | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 200 | 2     | 447   | CTE  | BI-DIR                            | Plastic         | 375604                   | \$85    | DS-3TE             |
| ALL             | 125 | 2     | 444   | FCT  | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 150 | 2     | 445   | FCT  | CCW                               | Aluminum        | 441494                   | \$915   | DS-3TE             |
| ALL             | 200 | 2     | 447   | FCT  | BI-DIR                            | Plastic         | 375604                   | \$85    | DS-3TE             |
| ALL             | 125 | 2     | 444   | TCE  | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 150 | 2     | 445   | TCE  | CCW                               | Bronze          | 441496                   | \$2,615 | DS-3TE             |
| ALL             | 200 | 2     | 447   | TCE  | BI-DIR                            | Plastic         | 375604                   | \$85    | DS-3TE             |
| DK44            | 250 | 2     | 449   | J    | CCW                               | Prop.           | 412701                   | \$1,211 | DS-6S              |
| DK45            | 300 | 2     | 449   | J    | CCW                               | Prop.           | 412701                   | \$1,211 | DS-6S              |
| DK46            | 350 | 2     | 449   | J    | CCW                               | Prop.           | 412701                   | \$1,211 | DS-6S              |
| G48361          | 300 | 4     | 5807  | JCE  | CCW                               | Sirocco         | 412704                   | \$1,664 | DS-6S              |
| G48363          | 350 | 4     | 5807  | JCE  | CCW                               | Sirocco         | 412704                   | \$1,664 | DS-6S              |
| G48368          | 400 | 4     | 5809  | JCE  | CCW                               | Sirocco         | 412705                   | \$1,862 | DS-6S              |
| G48374          | 450 | 4     | 5809  | JCE  | CCW                               | Sirocco         | 412705                   | \$1,862 | DS-6S              |
| G48378          | 500 | 4     | 5811  | JCE  | CCW                               | Sirocco         | 412705                   | \$1,862 | DS-6S              |
| G66267          | 150 | 2     | 449   | JCE  | CCW                               | Prop.           | 412701                   | \$1,211 | DS-6S              |
| G66269          | 200 | 2     | 449   | JCE  | CCW                               | Prop.           | 412701                   | \$1,211 | DS-6S              |
| G66273          | 250 | 2     | 449   | JCE  | CCW                               | Prop.           | 412701                   | \$1,211 | DS-6S              |
| G66274          | 300 | 2     | 5807  | JCE  | CCW                               | Prop.           | 412702                   | \$1,246 | DS-6S              |
| G66275          | 350 | 2     | 5809  | JCE  | CCW                               | Prop.           | 412703                   | \$1,281 | DS-6S              |
| G66276          | 400 | 2     | 5809  | JCE  | CCW                               | Prop.           | 412703                   | \$1,281 | DS-6S              |
| G66277          | 450 | 2     | 5809  | JCE  | CCW                               | Prop.           | 412703                   | \$1,281 | DS-6S              |
| G66280          | 500 | 2     | 5811  | JCE  | CCW                               | Prop.           | 412703                   | \$1,281 | DS-6S              |

## Roller Bearing Kits and Bearing Isolator/Grounding Kits

### APPLICATIONS:

Roller Bearing Kits: Used on belted applications only (do not use on direct connected loads). Do not use on motors mounted vertically shaft-up or shaft-down.  
Bearing Isolator/Grounding Seal Kits: Enhanced bearing isolator kits to prevent contamination and electrical damage to motor bearings.

### Roller Bearing Kits For Standard TITAN® TEFC Model Numbers

All belting applications should be reviewed by Nidec Motor Corporation® prior to use of these kits.

| Frame | Catalog Number | List    | Discount Symbol | Notes                     |
|-------|----------------|---------|-----------------|---------------------------|
| 400   | 646588         | \$800   | DS-3TE          | CTE,TCE,CE                |
| 440   | 2001456        | \$1,250 | DS-3TE          | CTE,TCE,CE                |
| 449   | 447733         | \$1,500 | DS-3TE          | J, JCE, CARB <sup>†</sup> |

### Bearing Isolator/Grounding Seal MGS Kits by Inpro/Seal® 841 PLUS® Type CE, Drive End

Note: Not approved for Division II applications

| Frame   | Catalog Number | List    | Discount Symbol | Notes |
|---------|----------------|---------|-----------------|-------|
| 140T    | 620280-000     | \$750   | DS-3TE          |       |
| 180T    | 620281-000     | \$867   | DS-3TE          |       |
| 210T    | 620282-000     | \$933   | DS-3TE          |       |
| 250T    | 620283-000     | \$983   | DS-3TE          |       |
| 280T,TS | 620284-000     | \$1,033 | DS-3TE          |       |
| 320T,TS | 620285-000     | \$1,167 | DS-3TE          |       |
| 360T,TS | 620286-000     | \$1,217 | DS-3TE          |       |
| 400T    | 620287-000     | \$1,300 | DS-3TE          |       |
| 400TS   | 620288-000     | \$1,417 | DS-3TE          |       |
| 440T    | 620290-000     | \$1,550 | DS-3TE          |       |
| 440TS   | 620289-000     | \$1,550 | DS-3TE          |       |

<sup>†</sup> All marks shown within this document are properties of their respective owners.





**WE BUILD MORE THAN MOTORS.**

# **WE BUILD PERFORMANCE.**



## **ACCU-Torq Motor**

- Constant torque operation up to 5000:1
- Easily converts to either a radial or axial blower
- Encoder provision standard
- Shaft grounding standard

## **Drive Panel**

- Industry proven engineering services
- Start-up and commissioning services
- New and retrofit systems
- UL508C panel builder
- Single point of contact for motor and drive
- Motor Match Warranty



# Conversion & Accessories

## Introduction & Pricing Guidelines



### A Variety of Conversion Options Available to Maximize Stock Flexibility

When quick deliveries are required on customized motors, our expansive inventory can be customized to provide special features. Our experienced Factory Technicians specialize in stock motor modifications to offer a speedy response to customer needs.

The following pages outline current modification options performed in the Southaven, MS, Conversion Center.



#### Los Angeles, CA, motor conversion center is now open!

The items that are bold in the Quick Pick pages are available in both Southaven & Los Angeles.

**Leadtime:** Unless indicated otherwise, the normal leadtime is three working days or less depending on the availability of the motor to be converted.

**Pricing:** When ordering, specify the stock Catalog Numbers to be converted along with the name(s) of the conversion(s) required. When pricing, add the "List Adder" for the conversion required (see the following pages for "list adders") to the "Base List Price" of the motor to be converted. Apply the standard motor "Discount Symbol" multiplier level to the total list price.

Note that some conversion options are "Net Adders," see notations in the Quick Pick and Conversion Pricing sections of this catalog.

For Example:

Pricing for conversion options are subject to change without notification.

|                                        |           |                                           |             |
|----------------------------------------|-----------|-------------------------------------------|-------------|
| C20P2B — List Price:                   | \$3238.00 | C20P2B — List Price:                      | \$3238.00   |
| Plastic Plug/Drain Added — List Adder: | \$242.00  | (DS- 3CE) — Standard Multiplier:          | x .50       |
| Total List Price:                      | \$3480.00 | Total List Price:                         | \$1619.00   |
| (DS- 3CE) — Standard Multiplier:       | x .50     | UL <sup>®†</sup> Certificate — Net Adder: | + \$4500.00 |
| Net Price of Motor & Conversion:       | \$1740.00 | Net Price of Motor & Certificate:         | \$6119.00   |

**Returns:** Converted motors may not be returned for credit.

**Freight Terms:** Freight will be per the Standard Terms and Conditions, F.O.B. Point of Conversion Center.

**Cancellation:** Conversion orders are processed as quickly as possible. A cancellation of a conversion order may result in additional charges to cover any work performed prior to cancellation.

**Exceptions:** Conversions listed may not be available on all Single Phase, Cooling Tower or Hazardous Location products. Contact your Territory Manager or Customer Service Representative when considering modification on these type motors.

**PHONE: 888 637 7333 FAX: 314 553 2087**

† All marks shown within this document are properties of their respective owners.

# Horizontal Motors (NEMA® Frames 56-449) Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

| Description                                                                |                                                                                                              | Frame |      |      |      |      |      |      |      |      |         |          |          |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------|------|------|------|------|------|------|------|------|---------|----------|----------|
|                                                                            |                                                                                                              | 56    | 140  | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449 (DP) | 449 (TE) |
| All Cast Iron                                                              | Conduit Box (CTE, CTI Only)                                                                                  | -     | 153  | 161  | 193  | 209  | 234  | 242  | 346  | 483  | 636     | -        |          |
|                                                                            | Fan Cover (CTE, CTI Only)                                                                                    | -     | 145  | 161  | 234  | 371  | 443  | 467  | 822  | 1369 | 1530    | -        |          |
| Assembly Mounting (Convert To F2,W1,W2,W3,W4)                              |                                                                                                              | 145   | 145  | 145  | 145  | 190  | 190  | 190  | 215  | 215  | 215     | 215      |          |
| Base, Removal Of Feet (UNIMOUNT® Only)                                     |                                                                                                              | 161   | 161  | 161  | 161  | 161  | 161  | -    | -    | -    | -       | -        |          |
| Bearings                                                                   | Sealed                                                                                                       | -     | 174  | 190  | 203  | 322  | 322  | 564  | 564  | -    | -       | -        |          |
|                                                                            | Single Shielded                                                                                              | -     | -    | -    | 403  | 483  | 564  | -    | -    | -    | -       | -        |          |
|                                                                            | Roller Bearing On Drive End (CTE, TCE, JDE)                                                                  | -     | -    | -    | -    | -    | -    | -    | -    | 1100 | 1550    | -        |          |
| Brakes                                                                     | Install Brake Kit (also add \$ of brake kit)                                                                 | 354   | 354  | 354  | 354  | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | Brake Kit: 1.5 Ft-Lb                                                                                         | 395   | 395  | 395  | -    | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | 3 Ft-Lb                                                                                                      | 467   | 467  | 467  | 467  | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | 6 Ft-Lb                                                                                                      | 548   | 548  | 548  | 548  | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | 10 Ft-Lb                                                                                                     | 886   | 886  | 886  | 886  | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | 15 Ft-Lb                                                                                                     | 983   | 983  | 983  | 983  | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | 25 Ft-Lb                                                                                                     | 1627  | 1627 | 1627 | 1806 | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | 35 Ft-Lb                                                                                                     | -     | -    | 1853 | 1853 | -    | -    | -    | -    | -    | -       | -        |          |
| Coupling, Mount Customer Half Coupling                                     |                                                                                                              | -     | -    | -    | -    | -    | -    | -    | -    | -    | -       | -        |          |
| Conduit Box                                                                | Accessory Conduit Box (Non-XP Only)                                                                          | -     | -    | 548  | 548  | 548  | 548  | 548  | 548  | 548  | 548     | 548      |          |
|                                                                            | Rotate Conduit Box                                                                                           | 161   | 161  | 161  | 161  | 161  | 161  | 161  | 161  | 161  | 161     | 161      |          |
|                                                                            | Cast Iron Conduit Box (CTE, CTI Only)                                                                        | -     | 153  | 161  | 193  | 209  | 234  | 242  | 346  | 483  | 636     | -        |          |
|                                                                            | Oversized Conduit Box                                                                                        | -     | 242  | 242  | 242  | 242  | 242  | 322  | 322  | 403  | 403     | 403      |          |
|                                                                            | Assemble To Motor                                                                                            | -     | -    | 145  | 145  | 145  | 145  | -    | -    | -    | -       | -        |          |
| Drains (Breather/Drains) (Cast Iron TEFC Only)                             |                                                                                                              | -     | -    | -    | -    | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | Plastic Plug/Drain                                                                                           | 185   | 185  | 185  | 185  | 242  | 242  | 242  | 242  | 242  | 242     | -        |          |
|                                                                            | Stainless Steel T-Type Breather/Drain                                                                        | -     | -    | 586  | 586  | 586  | 586  | 586  | 586  | 586  | 586     | -        |          |
|                                                                            | Explosionproof Drain                                                                                         | -     | -    | 282  | 282  | 459  | 459  | 459  | 459  | 459  | 459     | -        |          |
| Dripcover                                                                  | UNIMOUNT® (Type UTE, UTI, UTF)                                                                               | 145   | 145  | 161  | 177  | 209  | 242  | -    | -    | -    | -       | -        |          |
|                                                                            | Open Dripproof (Type DE, DI)                                                                                 | -     | 145  | 161  | 177  | 209  | 242  | 274  | -    | -    | -       | -        |          |
|                                                                            | TEFC Cast Iron (Type CTE, CTI, CE, TCE)                                                                      | -     | 169  | 282  | 282  | 282  | 372  | 372  | 372  | 677  | 677     | -        |          |
| Division 2 Self Certified & Division 2 CSA Certified (Eng. Approval Req'd) |                                                                                                              | -     | -    | -    | -    | -    | -    | -    | -    | -    | -       | -        |          |
|                                                                            | Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On CTE, TCE and CE Models – Standard Rating ONLY) | NC    | NC   | NC   | NC   | NC   | NC   | NC   | NC   | NC   | NC      | -        | -        |
|                                                                            | Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)                                                 | 100   | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100     | 100      | -        |
|                                                                            | Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)                                               | 100   | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100     | -        | -        |
|                                                                            | Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)                                                            | -     | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100     | -        | -        |
| Export Boxing                                                              |                                                                                                              | (#)   | (#)  | (#)  | (#)  | (#)  | (#)  | (#)  | (#)  | (#)  | (#)     | (#)      |          |
| Fans, Install Uni-Directional (TEFC Only)                                  |                                                                                                              | -     | -    | -    | -    | 451  | 451  | 580  | 580  | 677  | 677     | -        |          |
| Flanges                                                                    | C-Face                                                                                                       | 242   | 242  | 290  | 330  | 725  | 1007 | 1087 | 1176 | 1450 | 1692    | -        |          |
|                                                                            | D-Flange                                                                                                     | 403   | 403  | 419  | 353  | 1087 | 1208 | 1369 | 1595 | 2014 | 2900    | -        |          |
| Grease, Low Temp Grease                                                    |                                                                                                              | -     | 137  | 137  | 145  | 187  | 208  | 292  | 313  | 499  | 688     | 688      |          |
| Grease Fittings                                                            |                                                                                                              | -     | -    | 209  | 209  | 209  | 209  | 209  | 322  | 322  | 322     | 322      |          |
| Ground Lug                                                                 | In Conduit Box                                                                                               | 129   | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129     | 129      |          |
|                                                                            | On Frame (Cast Iron Non-XP Only)                                                                             | -     | -    | 371  | 371  | 371  | 371  | 371  | 371  | 371  | 371     | 371      |          |
| Grounding, Shaft Installed AEGIS® SGR™                                     |                                                                                                              | -     | 260  | 260  | 310  | 310  | 310  | 385  | 385  | 575  | 810     | 1080     |          |
| Hardware, Stainless Steel                                                  |                                                                                                              | -     | -    | 548  | 548  | 918  | 918  | 918  | 1257 | 1257 | 1643    | 1643     |          |
| Leads                                                                      | Ring Type Lead Lugs                                                                                          | 140   | 140  | 140  | 140  | 161  | 161  | -    | -    | -    | -       | -        |          |
|                                                                            | Tie Back Leads                                                                                               | 274   | 274  | 274  | 403  | 403  | 612  | 612  | 612  | 612  | 612     | 612      |          |
| Lifting Lugs                                                               |                                                                                                              | -     | -    | 274  | -    | 274  | -    | -    | -    | -    | -       | -        |          |
| Marine Duty, Below Deck                                                    |                                                                                                              | 338   | 338  | 338  | 338  | 419  | 419  | 419  | 419  | 612  | 612     | 612      |          |

(N) Net Adder

(NC) No Charge if specified at time of Motor order.

(+ ) Refer to Conversion Pricing Section for description.

(# ) Refer to Optional Export Packing Charges Section.

† All marks shown within this document are properties of their respective owners.





# Horizontal Motors (NEMA® Frames 56-449) Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

| Description                                               |                                        | Frame |      |      |      |       |       |       |       |       |         |          |
|-----------------------------------------------------------|----------------------------------------|-------|------|------|------|-------|-------|-------|-------|-------|---------|----------|
|                                                           |                                        | 56    | 140  | 180  | 210  | 250   | 280   | 320   | 360   | 400   | 444-447 | 449 (DP) |
| Nameplates                                                | Additional Duplicate Nameplate         | 70    | 70   | 70   | 70   | 70    | 70    | 70    | 70    | 70    | 70      | 70       |
|                                                           | Additional Stamping On Main Nameplate  | 70    | 70   | 70   | 70   | 70    | 70    | 70    | 70    | 70    | 70      | 70       |
|                                                           | Rotation Arrow                         | 70    | 70   | 70   | 70   | 70    | 70    | 70    | 70    | 70    | 70      | 70       |
|                                                           | Shipping Tag (#6 Paper Tag)            | NC    | NC   | NC   | NC   | NC    | NC    | NC    | NC    | NC    | NC      | NC       |
|                                                           | Special I.D. Plate                     | 70    | 70   | 70   | 70   | 70    | 70    | 70    | 70    | 70    | 70      | 70       |
|                                                           | Re-Nameplate (Re-Rate)                 | 70    | 70   | 70   | 70   | 70    | 70    | 70    | 70    | 70    | 70      | 70       |
|                                                           | Firepump Label                         | 5%    | 5%   | 5%   | 5%   | 5%    | 5%    | 5%    | 5%    | 5%    | 5%      | 5%       |
| Paint, Special                                            |                                        | 322   | 322  | 322  | 322  | 596   | 596   | 596   | 596   | 596   | 596     | 1176     |
| Prints & Data                                             | (Submittals) (NET ADDERS)              | -     | -    | -    | -    | -     | -     | -     | -     | -     | -       | -        |
|                                                           | Standard Submittals (+)                | NC    | NC   | NC   | NC   | NC    | NC    | NC    | NC    | NC    | NC      | NC       |
|                                                           | Speed Vs. Torque & Amps Curve          | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | Speed Vs. Torque & Amps Curve (Metric) | 274   | 274  | 170  | 170  | 170   | 170   | 170   | 170   | 170   | 170     | 170      |
|                                                           | Safe Stall Time Curve                  | 274   | 274  | 170  | 170  | 170   | 170   | 170   | 170   | 170   | 170     | 170      |
|                                                           | Acceleration Time Vs. Amps Curve       | 274   | 274  | 170  | 170  | 170   | 170   | 170   | 170   | 170   | 170     | 170      |
|                                                           | Performance Curves                     | 274   | 274  | 170  | 170  | 170   | 170   | 170   | 170   | 170   | 170     | 170      |
|                                                           | Performance Curves (Metric Units)      | 451   | 451  | 280  | 280  | 280   | 280   | 280   | 280   | 280   | 280     | 280      |
|                                                           | Shaft Stiffness                        | 274   | 274  | 170  | 170  | 170   | 170   | 170   | 170   | 170   | 170     | 170      |
|                                                           | Torsional Analysis                     | 274   | 274  | 170  | 170  | 170   | 170   | 170   | 170   | 170   | 170     | 170      |
|                                                           | Sound Power In Watts                   | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | Sound Pressure In dB @ 3 Feet          | 48    | 48   | 30   | 30   | 30    | 30    | 30    | 30    | 30    | 30      | 30       |
|                                                           | Sound Data Vs. Center Band             | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | Customer Data Sheet                    | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | Equivalent Circuit Data                | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | UL® Certificate                        | 4500  | 4500 | 4500 | 4500 | 4500  | 4500  | 4500  | 4500  | 4500  | 4500    | 4500     |
|                                                           | Certificate Of Conformance             | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | Shaft Print                            | 97    | 97   | 60   | 60   | 60    | 60    | 60    | 60    | 60    | 60      | 60       |
|                                                           | Shaft Print With Material Strength     | 354   | 354  | 220  | 220  | 220   | 220   | 220   | 220   | 220   | 220     | 220      |
|                                                           | Rotor Detail Print                     | 451   | 451  | 280  | 280  | 280   | 280   | 280   | 280   | 280   | 280     | 280      |
|                                                           | Rotor Detail & Shaft Print             | 532   | 532  | 330  | 330  | 330   | 330   | 330   | 330   | 330   | 330     | 330      |
|                                                           | Current Pulsation Analysis             | 354   | 354  | 220  | 220  | 220   | 220   | 220   | 220   | 220   | 220     | 220      |
|                                                           | Bearing Life Calculation               | 150   | 150  | 150  | 150  | 150   | 150   | 150   | 150   | 150   | 150     | 150      |
| Screens                                                   | (ODP Only)                             | -     | -    | 226  | 226  | 226   | 226   | 226   | 403   | 403   | 403     | 403      |
| Sealant, RTV                                              |                                        | 145   | 145  | 145  | 193  | 258   | 258   | 322   | 322   | 354   | 354     | 354      |
| Shaft Seals, "Inpro® Type" On Fan End (841 PLUS® Only)    |                                        | -     | 230  | 230  | 230  | 230   | 350   | 350   | 475   | 475   | 475     | -        |
| Space Heater                                              | ODP or TEFC Motors                     | 210   | 210  | 250  | 250  | 320   | 380   | 420   | 420   | 480   | 480     | 480      |
|                                                           | XP Motors                              | -     | 420  | 500  | 500  | 640   | 760   | 840   | 840   | 960   | 960     | -        |
| Testing                                                   | Short Commercial Test, Un-Witnessed    | 282   | 282  | 282  | 282  | 612   | 612   | 612   | 612   | 612   | 612     | 612      |
|                                                           | Complete Initial Test, Un-Witnessed    | 2457  | 2457 | 2457 | 2457 | 3649  | 3649  | 3649  | 3649  | 3649  | 3649    | 8426     |
|                                                           | Complete Initial Test, Witnessed       | 8506  | 8506 | 8506 | 8506 | 13782 | 13782 | 13782 | 13782 | 13782 | 13782   | 13782    |
|                                                           | Megger Test                            | 756   | 756  | 756  | 756  | 1474  | 1474  | 1474  | 1474  | 1474  | 1474    | 1474     |
| Thermal Protection, Windings                              |                                        | -     | -    | -    | -    | -     | -     | -     | -     | -     | -       | -        |
|                                                           | Thermostats                            | 200   | 200  | 200  | 200  | 300   | 300   | 300   | 400   | 400   | 400     | 400      |
|                                                           | Thermistors                            | 725   | 725  | 725  | 725  | 725   | 725   | 725   | 725   | 725   | 725     | 725      |
|                                                           | THERMA SENTRY®                         | 1740  | 1740 | 1740 | 1740 | 1820  | 1820  | 1820  | 1820  | 1820  | 1820    | 1820     |
|                                                           | Thermocouples                          | 209   | 209  | 209  | 209  | 419   | 419   | 419   | 419   | 419   | 419     | 2417     |
| Tropicalization / High Moisture Protection                |                                        | 242   | 242  | 242  | 242  | 354   | 354   | 354   | 354   | 612   | 612     | 612      |
| Vector Encoder / Blower With Shroud Conversion (CTI, JEI) |                                        | -     | -    | -    | -    | -     | -     | -     | -     | -     | -       | -        |
|                                                           | Blower                                 | -     | 644  | 886  | 1047 | 1168  | 1450  | 1450  | 1450  | 2014  | 2658    | -        |
|                                                           | Encoder                                | -     | -    | 1450 | 1450 | 1450  | 1450  | 1450  | 1450  | 1450  | 1450    | -        |
|                                                           | Encoder w/Bendix® Connector            | -     | 1723 | 2415 | 2576 | 2697  | 2979  | 2979  | 2979  | 3542  | 4186    | -        |

(N) Net Adder  
(NC) No Charge if specified at time of Motor order.

(+) Refer to Conversion Pricing Section for description.  
(#) Refer to Optional Export Packing Charges Section.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors (TITAN® Frames 449-5800) Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

| Description                                                                                      |                                               | Frame    |      |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|------|
|                                                                                                  |                                               | 449 (TE) | 5000 |
| Assembly Mounting                                                                                | Convert To "F2" (Type JDE, R, RS Only)        | -        | 650  |
| Bearings                                                                                         | Roller Bearing on Drive End (Type JCE Only)   | 1800     | -    |
| Conduit Box                                                                                      | Rotate 90 Degrees                             | 100      | 100  |
| Coupling                                                                                         | Mount Customer Half Coupling                  | 1380     | 1380 |
| Division 2 Self Certified & Division 2 CSA Certified (Eng. Approval Req'd)                       |                                               | -        | -    |
| Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On JCE Models – Standard Rating ONLY) |                                               | NC       | NC   |
| Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)                                     |                                               | 100      | 100  |
| Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)                                   |                                               | 100      | 100  |
| Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)                                                |                                               | 100      | 100  |
| Export Boxing                                                                                    |                                               | (#)      | (#)  |
| Fans                                                                                             | Install Uni-Directional (TEFC Only)           | 830      | -    |
| Flanges                                                                                          | C-Face                                        | 2169     | N/A  |
|                                                                                                  | D-Flange                                      | 2272     | N/A  |
| Ground Lug                                                                                       | In Conduit Box                                | 300      | 300  |
|                                                                                                  | On Frame (Cast Iron, Non-Explosionproof Only) | 300      | 300  |
| Hazardous Location, Division 2 Non-Listed                                                        |                                               | 5%       | 5%   |
| Marine Duty                                                                                      |                                               | 5%       | 5%   |
| Nameplates                                                                                       | Additional Duplicate                          | 70       | 70   |
|                                                                                                  | Re-Nameplate                                  | 70       | 70   |
|                                                                                                  | Special ID Nameplate                          | 70       | 70   |
|                                                                                                  | Shipping Tag (#6 Paper Tag)                   | NC       | NC   |
|                                                                                                  | Firepump Label (Requires Approval)            | 140      | -    |
| Paint, Special (Requires Approval)                                                               |                                               | 5%       | 5%   |
| Prints & Data                                                                                    | (Submittals) (NET ADDERS)                     | -        | -    |
|                                                                                                  | Standard Submittals (QP)                      | NC       | NC   |
| Speed Vs. Torque & Amps Curve                                                                    |                                               | 60       | 60   |
| Speed Vs. Torque & Amps Curve (Metric)                                                           |                                               | 170      | 170  |
| Safe Stall Time Curve                                                                            |                                               | 170      | 170  |
| Acceleration Time Vs. Amps Curve                                                                 |                                               | 170      | 170  |
| Performance Curves                                                                               |                                               | 170      | 170  |
| Performance Curves (Metric Units)                                                                |                                               | 280      | 280  |
| Shaft Stiffness                                                                                  |                                               | 170      | 170  |
| Torsional Analysis                                                                               |                                               | 170      | 170  |
| Sound Power In Watts                                                                             |                                               | 60       | 60   |
| Sound Pressure In dB @ 3 Feet                                                                    |                                               | 30       | 30   |
| Sound Data Vs. Center Band                                                                       |                                               | 60       | 60   |
| Customer Data Sheet                                                                              |                                               | 60       | 60   |
| Equivalent Circuit Data                                                                          |                                               | 60       | 60   |
| UL® Certificate                                                                                  |                                               | 4500     | 4500 |
| Certificate Of Conformance                                                                       |                                               | 60       | 60   |
| Shaft Print                                                                                      |                                               | 60       | 60   |
| Shaft Print With Material Strength                                                               |                                               | 220      | 220  |

(N) Net Adder

(NC) No Charge if specified at time of Motor order.

(+) Refer to Conversion Pricing Section for description.

# Refer to Optional Export Packing Charges Section.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors (TITAN® Frames 449-5800) Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

| Description                                         |                                       | Frame    |       |
|-----------------------------------------------------|---------------------------------------|----------|-------|
|                                                     |                                       | 449 (TE) | 5000  |
| Prints & Data                                       | Rotor Detail Print                    | 280      | 280   |
|                                                     | Rotor Detail & Shaft Print            | 330      | 330   |
|                                                     | Current Pulsation Analysis            | 220      | 220   |
|                                                     | Bearing Life Calculation              | 150      | 150   |
| Screens                                             | (ODP Only)                            | -        | STD   |
| Space Heater                                        | (ODP or TEFC Motors)                  | 480      | 480   |
| Tests                                               | Short Commercial Test, Un-Witnessed   | 380      | 380   |
|                                                     | Complete Initial Test, Un-Witnessed   | 5230     | 8400  |
|                                                     | Complete Initial Test, Witnessed      | 7860     | 12150 |
| Thermal Protection, Bearings                        | (Type R, RS Only)                     | -        | -     |
|                                                     | RTD's, 1/Bearing (120 Ohm or 100 Ohm) | -        | 2500  |
| Thermal Protection, Windings                        |                                       | -        | -     |
|                                                     | Thermostats (1/Phase)                 | 460      | 460   |
|                                                     | THERMA SENTRY® (SMSE)                 | 1130     | 1130  |
| Vector Encoder / Blower With Shroud (Type JEI Only) |                                       | -        | -     |
|                                                     | Blower                                | 2500     | -     |
|                                                     | Encoder                               | 900      | -     |
|                                                     | Encoder w/Bendix®† Connector          | 950      | -     |

VERTICAL  
MOTORS

KITS &  
ACCESSORIES

CONVERSION  
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† All marks shown within this document are properties of their respective owners.



# Vertical Motors

## Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

| Description                                                                |                                                                                                          | Frame |     |     |     |     |     |      |         |      |      |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------|-----|-----|-----|-----|-----|------|---------|------|------|
|                                                                            |                                                                                                          | 180   | 210 | 250 | 280 | 320 | 360 | 400  | 444-447 | 449  | 5000 |
| Bearings                                                                   | Extra High Thrust (175%) (#)                                                                             | -     | -   | -   | -   | 5%  | 5%  | 5%   | 5%      | 5%   | 5%   |
| Coupling                                                                   | (Change To Alternate)                                                                                    | NC    | NC  | NC  | NC  | NC  | NC  | NC   | NC      |      |      |
| Conduit Box                                                                | Accessory Conduit Box                                                                                    | 901   | 901 | 901 | 901 | 901 | 901 | 901  | 901     | 901  | 901  |
|                                                                            | Rotate Conduit Box                                                                                       | 235   | 235 | 235 | 235 | 235 | 235 | 235  | 235     | 235  | 235  |
|                                                                            | Cast Iron Conduit Box                                                                                    | -     | -   | -   | -   | 293 | 469 | 587  | 704     | -    | -    |
|                                                                            | Size 3 Cast Iron Box                                                                                     | -     | -   | -   | -   | -   | -   | 3477 | 3477    | 3477 | 3477 |
| Division 2 Self Certified & Division 2 CSA Certified (Eng. Approval Req'd) |                                                                                                          | -     | -   | -   | -   | -   | -   | -    | -       | -    | -    |
|                                                                            | Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On TVCS & TCEF Models – Standard Rating ONLY) | NC    | NC  | NC  | NC  | NC  | NC  | NC   | NC      | -    | -    |
|                                                                            | Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)                                             | 100   | 100 | 100 | 100 | 100 | 100 | 100  | 100     | 100  | 100  |
|                                                                            | Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)                                           | 100   | 100 | 100 | 100 | 100 | 100 | 100  | 100     | -    | -    |
|                                                                            | Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)                                                        | 100   | 100 | 100 | 100 | 100 | 100 | 100  | 100     | -    | -    |
| Drains                                                                     | T-Type Breather/Drain                                                                                    | 70    | 70  | 94  | 94  | 94  | 117 | 117  | 117     | -    | -    |
| Export Boxing                                                              | (Net Adder)                                                                                              | (@)   | (@) | (@) | (@) | (@) | (@) | (@)  | (@)     | (@)  | (@)  |
| Flanges                                                                    | (Change Bracket To Alternate "BD")                                                                       | NC    | NC  | NC  | NC  | NC  | NC  | NC   | NC      | NC   | NC   |
| Ground Lug                                                                 | In Conduit Box                                                                                           | 108   | 108 | 108 | 108 | 108 | 108 | 108  | 108     | 108  | 108  |
| Leads                                                                      | (Tie Back Leads)                                                                                         | 399   | 587 | 587 | 892 | 892 | 892 | 892  | 892     | -    | -    |
| Nameplates                                                                 | Additional Duplicate Nameplate                                                                           | 235   | 235 | 235 | 235 | 235 | 235 | 235  | 235     | 235  | 235  |
|                                                                            | Additional Stamping On Main Nameplate                                                                    | 235   | 235 | 235 | 235 | 235 | 235 | 235  | 235     | 235  | 235  |
|                                                                            | Shipping Tag (#6 Paper Tag)                                                                              | NC    | NC  | NC  | NC  | NC  | NC  | NC   | NC      | NC   | NC   |
|                                                                            | Special I.D. Plate†                                                                                      | 235   | 235 | 235 | 235 | 235 | 235 | 235  | 235     | 235  | 235  |
|                                                                            | Re-Nameplate (Re-Rate)                                                                                   | 235   | 235 | 235 | 235 | 235 | 235 | 235  | 235     | 235  | 235  |
|                                                                            | Firepump Label                                                                                           | 5%    | 5%  | 5%  | 5%  | 5%  | 5%  | 5%   | 5%      | 5%   | 5%   |
| Non-Reverse Ratchet                                                        |                                                                                                          | -     | -   | -   | -   | -   | -   | -    | -       | -    | -    |
|                                                                            | Bolted Coupling - Add or Remove                                                                          | NC    | NC  | NC  | NC  | NC  | NC  | NC   | NC      | NC   | NC   |
|                                                                            | Clockwise Non-Reverse Ratchet                                                                            | -     | -   | -   | -   | 469 | 469 | 469  | 469     | 1408 | 1408 |
| Oil Sump Heaters (#)                                                       |                                                                                                          | -     | -   | -   | -   | 469 | 469 | 563  | 563     | -    | -    |
| Paint, Special                                                             |                                                                                                          | 469   | 469 | 869 | 869 | 869 | 869 | 869  | 869     | 1714 | 1714 |
| Prints & Data                                                              | (Submittals) (NET ADDERS)                                                                                | -     | -   | -   | -   | -   | -   | -    | -       | -    | -    |
|                                                                            | Standard Submittals                                                                                      | NC    | NC  | NC  | NC  | NC  | NC  | NC   | NC      | NC   | NC   |
|                                                                            | Speed Vs. Torque & Amps Curve                                                                            | 60    | 60  | 60  | 60  | 60  | 60  | 60   | 60      | 60   | 60   |
|                                                                            | Speed Vs. Torque & Amps Curve (Metric)                                                                   | 170   | 170 | 170 | 170 | 170 | 170 | 170  | 170     | 170  | 170  |
|                                                                            | Safe Stall Time Curve                                                                                    | 170   | 170 | 170 | 170 | 170 | 170 | 170  | 170     | 170  | 170  |
|                                                                            | Acceleration Time Vs. Amps Curve                                                                         | 170   | 170 | 170 | 170 | 170 | 170 | 170  | 170     | 170  | 170  |
|                                                                            | Performance Curves                                                                                       | 170   | 170 | 170 | 170 | 170 | 170 | 170  | 170     | 170  | 170  |
|                                                                            | Performance Curves (Metric Units)                                                                        | 280   | 280 | 280 | 280 | 280 | 280 | 280  | 280     | 280  | 280  |
|                                                                            | Shaft Stiffness                                                                                          | 170   | 170 | 170 | 170 | 170 | 170 | 170  | 170     | 170  | 170  |
|                                                                            | Torsional Analysis                                                                                       | 170   | 170 | 170 | 170 | 170 | 170 | 170  | 170     | 170  | 170  |
|                                                                            | Sound Power In Watts                                                                                     | 60    | 60  | 60  | 60  | 60  | 60  | 60   | 60      | 60   | 60   |
|                                                                            | Sound Pressure In dB @ 3 Feet                                                                            | 30    | 30  | 30  | 30  | 30  | 30  | 30   | 30      | 30   | 30   |
|                                                                            | Sound Data Vs. Center Band                                                                               | 60    | 60  | 60  | 60  | 60  | 60  | 60   | 60      | 60   | 60   |
|                                                                            | Customer Data Sheet                                                                                      | 60    | 60  | 60  | 60  | 60  | 60  | 60   | 60      | 60   | 60   |
|                                                                            | Equivalent Circuit Data                                                                                  | 60    | 60  | 60  | 60  | 60  | 60  | 60   | 60      | 60   | 60   |

(N) Net Adder  
 (NC) No Charge if specified at time of Motor order.  
 (+) Refer to Conversion Pricing Section for description.

(@) Refer to Optional Export Packing Charges Section.  
 (#) Available only on Premium Efficient HOLLOSHAFT® WPI (Type RUSI and RUEI)

† All marks shown within this document are properties of their respective owners.



# Vertical Motors

## Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

| Description                                      |                                                       | Frame |      |      |      |      |      |      |         |      |      |
|--------------------------------------------------|-------------------------------------------------------|-------|------|------|------|------|------|------|---------|------|------|
|                                                  |                                                       | 180   | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449  | 5000 |
| Prints & Data                                    | UL <sup>®†</sup> Certificate                          | 4500  | 4500 | 4500 | 4500 | 4500 | 4500 | 4500 | 4500    | 4500 | 4500 |
|                                                  | Certificate Of Conformance                            | 60    | 60   | 60   | 60   | 60   | 60   | 60   | 60      | 60   | 60   |
|                                                  | Shaft Print                                           | 60    | 60   | 60   | 60   | 60   | 60   | 60   | 60      | 60   | 60   |
|                                                  | Shaft Print With Material Strength                    | 220   | 220  | 220  | 220  | 220  | 220  | 220  | 220     | 220  | 220  |
|                                                  | Rotor Detail Print                                    | 280   | 280  | 280  | 280  | 280  | 280  | 280  | 280     | 280  | 280  |
|                                                  | Rotor Detail & Shaft Print                            | 330   | 330  | 330  | 330  | 330  | 330  | 330  | 330     | 330  | 330  |
|                                                  | Current Pulsation Analysis                            | 220   | 220  | 220  | 220  | 220  | 220  | 220  | 220     | 220  | 220  |
|                                                  | Bearing Life Calculation                              | 155   | 155  | 155  | 155  | 155  | 155  | 155  | 155     | 155  | 155  |
|                                                  | Space Heater (Double Adder For Explosionproof Motors) | 477   | 477  | 512  | 512  | 596  | 643  | 643  | 643     | 1326 | 1326 |
|                                                  | Steady Bushing Kit (Attached To Motor Eyebolt)        | 202   | 202  | 202  | 202  | 300  | 300  | 300  | 300     | 418  | 418  |
| Tests                                            | Short Commercial Test, Un-Witnessed                   | 662   | 662  | 662  | 662  | 662  | 662  | 662  | 662     | 662  | 662  |
|                                                  | Complete Initial Test, Un-Witnessed                   | 3580  | 3580 | 5317 | 5317 | 5317 | 5317 | 5317 | 5317    | 5317 | -    |
| Thermal Protection, Bearings (Upper Bracket) (#) |                                                       | -     | -    | -    | -    | -    | -    | -    | -       | -    | -    |
|                                                  | RTD's, 10 or 120 Ohm                                  | -     | -    | -    | -    | 1338 | 1338 | 1338 | 1338    | 1338 | 1338 |
|                                                  | RTD's, 100 Ohm                                        | -     | -    | -    | -    | 1338 | 1338 | 1338 | 1338    | 1338 | 1338 |
| Thermal Protection, Windings                     |                                                       | -     | -    | -    | -    | -    | -    | -    | -       | -    | -    |
|                                                  | Thermostats (Double Adder For XP Motors)              | 265   | 265  | 265  | 265  | 418  | 519  | 519  | 519     | 519  | 519  |
|                                                  | Thermistors                                           | 472   | 472  | 472  | 472  | 669  | 669  | 876  | 876     | 876  | 876  |
|                                                  | THERMA SENTRY <sup>®</sup>                            | 587   | 587  | 587  | 587  | 587  | 587  | 587  | 1150    | -    | -    |
|                                                  | Thermocouples                                         | 3434  | 3434 | 3434 | 3434 | 3434 | 3434 | 3434 | 3434    | 3434 | 3434 |
| Vibration Detector (#)                           | Robertshaw <sup>®†</sup> Model 366                    | -     | -    | -    | -    | 1878 | 1878 | 1878 | 1878    | -    | -    |

(N) Net Adder  
 (NC) No Charge if specified at time of Motor order.  
 (+) Refer to Conversion Pricing Section for description.

(@) Refer to Optional Export Packing Charges Section.  
 (#) Available only on Premium Efficient HOLLOSHAFT<sup>®</sup> WPI (Type RUSI and RUEI)

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## Three Phase Modifiable NEMA<sup>®†</sup> Vertical Motors Conversion & Accessories

### Introduction and Pricing Guidelines

Select the base list price from the previous section.

Price adders for Accessories and Modifications that are not part of the standard product offering can be found in the following sections. Note that not all of the Accessories and Modifications are available on all product types or frame sizes. Refer to the detailed description for restrictions and guidelines of each Accessory and Modification.

All list price adders carry the same discount symbol as the base list price of the motor.

Note that some adders are net adders.

Percentage adders are percent of the base list price, unless otherwise noted.0

Refer to NMC for product lead times.

Refer to Terms & Conditions of sale on page ix.

Prices and information subject to change without notice.

Round total list price to the nearest dollar.

All prices are in U.S. dollars.

Some Accessories and Modifications will require a larger than standard frame size. All adders to be based on confirmed frame size.

## Integral Horsepower Motor Type Code Identification Chart

### Vertical Motors

| Type Code       | Motor Description                     | Phase        | Efficiency         |
|-----------------|---------------------------------------|--------------|--------------------|
| AU, RU, HU      | WPI Vertical, HOLLOSHAFT <sup>®</sup> | Three Phase  | Standard Efficient |
| AUE, RUE        | WPI Vertical, HOLLOSHAFT <sup>®</sup> | Three Phase  | Energy Efficient   |
| AUI, RUSI, HUSI | WPI Vertical, HOLLOSHAFT <sup>®</sup> | Three Phase  | Premium Efficient  |
| AUR, AUC        | WPI Vertical, HOLLOSHAFT <sup>®</sup> | Single Phase | Standard Efficient |
| AV, RV          | WPI Vertical, Solid Shaft             | Three Phase  | Standard Efficient |
| TU              | TEFC, HOLLOSHAFT <sup>®</sup>         | Three Phase  | Standard Efficient |
| TV              | TEFC, Solid Shaft                     | Three Phase  | Standard Efficient |

<sup>†</sup> All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### All Cast Iron Construction

#### Cast Iron Conduit Box

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 153 | 161 | 193 | 209 | 234 | 242 | 346 | 483 | 636     | -       | -       | -    |

Replacement of steel conduit box with cast iron version.

Available on Hostile Duty Motors (Types CTE, CTI)

#### Cast Iron Fan Cover

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|------|---------|---------|---------|------|
| Adder: | -  | 145 | 161 | 234 | 371 | 443 | 467 | 822 | 1369 | 1530    | -       | -       | -    |

Replacement of steel (or plastic) fan cover with cast iron version.

Available on Hostile Duty Motors (Types CTE, CTI)

### Assembly Mounting

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 145 | 145 | 145 | 145 | 190 | 190 | 190 | 215 | 215 | 215     | 215     | -       | 650  |

Convert standard F1 Assembly to F2, W1, W2, W3 or W4 assembly. Involves repositioning output shaft to achieve proper configuration.

F1 to F2 UNIMOUNT® base must be repositioned for correct "BA" Dimension.

Not available on 180-250 frame flange mount (C or D Flange) UNIMOUNT®.

Availability:

Limited availability on 180-320 frame ODP.

56-140 Frame: Very limited availability.

Contact your NMC Technical Representative prior to quoting.

180-447 Frame: available on ODP, TEFC & Explosionproof Motors.

449 Frame: available on ODP only.

5000 Frame: available on type JDE, R & RS only.

### Base, Removal of Feet

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | -   | -   | -   | -       | -       | -       | -    |

For flange mount (C or D Flange) motors, involves removal of bolt-on base.

Contact your NMC Technical Representative for availability on 56 & 140 frame

Available on UNIMOUNT® Motors 180 frame & larger.

UNIMOUNT® motors (some 56 & 140 frames have welded bases).

UTE, UTI, UT4 - welded, non-removable base.

### Bearings

#### Sealed

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 174 | 190 | 203 | 322 | 322 | 564 | 564 | -   | -       | -       | -       | -    |

Includes replacing the standard bearings with sealed bearings, and replacing the grease fittings with plugs. Most 180-360 frame motors have shielded bearings as standard.

Available on ODP, TEFC and Explosionproof enclosures.

#### Single Shielded

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | -   | 403 | 483 | 564 | -   | -   | -   | -       | -       | -       | -    |

Includes replacing the standard bearings with single shielded bearings.

Currently only available on 210-280 frame 841 PLUS® (Type CE) motors.

#### Roller Bearing On Drive End

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400    | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|--------|---------|---------|---------|------|
| Adder: | -  | -   | -   | -   | -   | -   | -   | -   | \$1100 | \$1550  | -       | \$1800  | -    |

Includes replacing the standard drive end bearing with a roller bearing.

Available on TEFC motors (Types CTE, TCE & JDE) only.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Brakes

#### Install Brake Kit (Must also add the price of the brake kit)

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 354 | 354 | 354 | 354 | -   | -   | -   | -   | -   | -       | -       | -       | -    |

Use the above adder PLUS list price of the brake kit. Refer to the Quick Pick chart, or "Kits" section for brake kits prices.

Involves removal of fan guard and adding stub shaft with brake and adaptor.

Available on UNIMOUNT® motors (Type UTE, UTI) 56-210 frame.

### Coupling

#### Mount Customer Half Coupling

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | -   | -   | -   | -   | -   | -   | -   | -       | -       | 1380    | 1380 |

Customer's one-piece coupling half can be factory mounted on the motor shaft. Coupling half must be finish machined and key seated to motor shaft dimensions and sent transportation prepaid and properly identified to the motor factory. Motors will be dynamically balanced prior to installing the half coupling and will not be rebalanced after coupling assembly.

Contact your NMC Technical Representative for availability and leadtime.

### Conduit Boxes

#### Accessory Conduit Box

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 548 | 548 | 548 | 548 | 548 | 548 | 548 | 548     | 548     | -       | -    |

A conduit can be added to the main motor conduit box for routing of accessory leads.

Available on ODP and TEFC (not Explosionproof) ratings.

#### Rotate Conduit Box

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161 | 161     | 161     | 100     | 100  |

Standard motors have lead opening facing down (toward motor feet). Includes rotating the conduit box so the lead opening is facing the desired direction. Specify direction of lead opening: Facing up (away from motor feet); Facing pulley end (shaft end); Facing short end (fan end)

#### Oversized Conduit Box

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 242 | 242 | 242 | 242 | 242 | 322 | 322 | 403 | 403     | 403     | -       | -    |

Includes mounting the conduit box on the motor (for motors that have the conduit box shipped loose).

#### Assemble To Motor

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 145 | 145 | 145 | 145 | -   | -   | -   | -       | -       | -       | -    |

Includes mounting the conduit box on the motor (for motors that have the conduit box shipped loose).

### Drains

#### Plastic Plug/Drain

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 185 | 185 | 185 | 185 | 242 | 242 | 242 | 242 | 242 | 242     | -       | -       | -    |

Install plastic plug/drains in place of standard drains.

Available on 180-440 frame cast iron enclosed motors.

† All marks shown within this document are properties of their respective owners.





# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Drains (continued)

#### Stainless Steel T-Type Breather/Drain

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586     | -       | -       | -    |

Install stainless steel T-type breather/drains in place of standard drains.

Available on 180-440 frame cast iron enclosed motors.

#### Explosionproof Drain

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 282 | 282 | 459 | 459 | 459 | 459 | 459 | 459     | -       | -       | -    |

Install Explosionproof (UL® listed) drains in place of standard drains.

Available on 180-440 frame cast iron enclosed motors.

### Dripcover / Canopy Cap

#### TEFC UNIMOUNT® (Type UTE, UTI, UTF)

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 145 | 145 | 161 | 177 | 209 | 242 | -   | -   | -   | -       | -       | -       | -    |

Install dripcover kit for vertical shaft-down mounting.

#### Open Dripproof (Type DE, DI)

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 145 | 161 | 177 | 209 | 242 | 274 | -   | -   | -       | -       | -       | -    |

Install dripcover kit for vertical shaft-down mounting.

#### TEFC Cast Iron (Type CTE, CTI, CE, TCE)

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 169 | 282 | 282 | 282 | 372 | 372 | 372 | 677 | 677     | -       | -       | -    |

Install dripcover kit for vertical shaft-down mounting.

Not available on most 320-360 frame TEFC motors.

### Division 2 Self Certified & Division 2 CSA®† Certified

#### (+) Refer To The Charts Below For Pricing

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+)     | (+)     | (+)     | (+)  |

The following restrictions apply:

Not available (not applicable) on UL® Listed Hazardous Location motors.

Must use energy or premium efficient motors.

Class II not available on ODP motors or CSA®† Division 2.

Contact an NMC Technical Representative to confirm availability.

Temp codes T-4 to T-6 not available.

Group E not available.

Inverter duty limited to T1-T3.

Zone 2 markings are available on separate Division 2 nameplate options.

### Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On CTE, TCE, CE and JCE Models – Standard Rating ONLY)

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | -       | NC      | NC   |

Contact an NMC Technical Representative to confirm availability.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Division 2 Self Certified & Division 2 CSA<sup>®†</sup> Certified *(continued)*

#### Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100     | 100     | 100     | 100  |

Contact an NMC Technical Representative to confirm availability.

#### Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100     | -       | 100     | 100  |

Contact an NMC Technical Representative to confirm availability.

Group E is not available

Class II is not available on Open Drip Proof (ODP) motors

#### Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)

|        |    |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | -  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100     | -       | 100     | 100  |

Contact an NMC Technical Representative to confirm availability.

CSA is not available on Open Drip Proof (ODP) motors

## Export Boxing

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | (#) | (#) | (#) | (#) | (#) | (#) | (#) | (#) | (#) | (#)     | (#)     | (#)     | (#)  |

Product is boxed, packaged or crated as required for under deck exporting.

(#) Refer to Optional Export Packing Charges Section.

## Fans, Install Uni-Directional

|        |    |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | -  | -   | -   | -   | 451 | 451 | 580 | 580 | 677 | 677     | -       | 830     | -    |

Removal of bi-directional or uni-directional fan and replaced with uni-directional type with desired rotation.

Specify desired rotation, when viewed from opposite drive end of motor.

Available on Totally Enclosed Fan Cooled (TEFC) motors.

## Flanges

### C-Face

|        |     |     |     |     |     |      |      |      |      |         |         |         |      |
|--------|-----|-----|-----|-----|-----|------|------|------|------|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 242 | 242 | 290 | 330 | 725 | 1007 | 1087 | 1176 | 1450 | 1692    | -       | 2169    | -    |

Removal of standard end shield and replaced with C-Face.

Available on UNIMOUNT<sup>®</sup>, Hostile Duty, CORRO-DUTY<sup>®</sup>, Automotive Duty & 841 PLUS<sup>®</sup> motors.Except for UNIMOUNT<sup>®</sup>, 140-250 frame will have non-NEMA<sup>®†</sup> "BA" dimension.

### D-Flange

|        |     |     |     |     |      |      |      |      |      |         |         |         |      |
|--------|-----|-----|-----|-----|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 403 | 403 | 419 | 353 | 1087 | 1208 | 1369 | 1595 | 2014 | 2900    | -       | 2272    | -    |

Removal of standard end shield and replaced with D-Flange.

Available on UNIMOUNT<sup>®</sup>, Hostile Duty, CORRO-DUTY<sup>®</sup>, Automotive Duty & 841 PLUS<sup>®</sup> motors.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Grease, Low Temp Grease

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 137 | 137 | 145 | 187 | 208 | 292 | 313 | 499 | 688     | 688     | -       | -    |

Purge and repack lubricant in end shields with Mobil® 28 grease, or equivalent, with temperature range of -65°F to 350°F.

Available on motors with shielded or open bearings.

### Grease Fittings

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 209 | 209 | 209 | 209 | 209 | 322 | 322 | 322     | 322     | -       | -    |

Replace grease plugs on motors so equipped with hydraulic grease fittings on inlets and pressure reliefs on grease drains.

Not available on Explosionproof motors.

### Ground Lug

#### In Conduit Box

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129     | 129     | 300     | 300  |

Addition of ground lug in main motor conduit box.

#### On Frame

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 371 | 371 | 371 | 371 | 371 | 371 | 371 | 371     | 371     | 300     | 300  |

Addition of drilled and tapped hole on conduit box side of frame and installation of a bronze grounding screw.

Available on non-Explosionproof cast iron ratings only.

### Grounding, Shaft

#### Installed AEGIS®† SGR™

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 260 | 260 | 310 | 310 | 310 | 385 | 385 | 575 | 810     | 1080    | -       | -    |

UNIMOUNT® and ODP - drive end only.

Not offered on Hazardous Location motors

### Hardware, Stainless Steel

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|------|------|---------|---------|---------|------|
| Adder: | -  | -   | 548 | 548 | 918 | 918 | 918 | 1257 | 1257 | 1643    | 1643    | -       | -    |

Replacement of all external hardware with grade 5 stainless steel (standard hardware is zinc plated).

Available on non-Explosionproof cast iron enclosed motors.

### Leads

#### Ring Type Lead Lugs

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 140 | 140 | 140 | 140 | 161 | 161 | -   | -   | -   | -       | -       | -       | -    |

Addition of ring type lead lugs on 56-250 frame motors.

Crimp type lead lugs are standard on all 280 frame & larger.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Leads *(continued)*

#### Tie Back Leads

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 274 | 274 | 274 | 403 | 403 | 612 | 612 | 612 | 612 | 612     | 612     | -       | -    |

Reconnect dual voltage 9-lead or 12-lead motors to 3-lead single voltage. Tie back and connect leads inside frame for single voltage 3-lead conduit box connections.

Specify desired voltage when ordering.

Available on non-Explosionproof motors.

### Lifting Lugs

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | -   | 274 | -   | 274 | -   | -   | -   | -   | -       | -       | -       | -    |

Addition of lifting lugs to motors normally not supplied with them.

Currently only available on 180 frame premium efficient ODP motors (Type DE).

### Marine Duty

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 338 | 338 | 338 | 338 | 419 | 419 | 419 | 419 | 612 | 612     | 612     | 5%      | 5%   |

Conversion of standard product to IEEE-45 below deck standards. Includes addition of screens (on ODP motors), lead terminals, high moisture winding treatment and rerate to 50°C ambient, 1.0 service factor. Motors will NOT include USCG documentation.

Not available on TITAN® sleeve bearing motors.

### Nameplates

#### Additional Duplicate Nameplate

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 70 | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70      | 70      | 70      | 70   |

An additional duplicate nameplate for mounting on customer equipment. These additional nameplates cannot be supplied with CSA®† or UL®† logos.

#### Additional Stamping On Main Nameplate

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 70 | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70      | 70      | -       | -    |

The main motor nameplate can be stamped with limited customer tagging information (20 characters max).

### Rotation Arrow

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 70 | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70      | 70      | -       | -    |

Metal plate mounted on motor with arrow showing direction of rotation. Customer must specify required direction of rotation:

Counter clockwise facing opposite drive end

Clockwise facing opposite drive end

Supplied as standard on motors with uni-directional fans.

### Shipping Tag (#6 Paper Tag)

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | NC | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | NC      | NC      | NC   |

A #6 paper shipping tag, with customer tagging information, can be supplied at no charge when specified at time of motor order.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Nameplates *(continued)*

#### Special I.D. Plate

|        |    |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 70 | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70      | 70      | 70      | 70   |

Special identification plates can be mounted on the motor with limited customer specified tagging information (100 characters max).

#### Re-Nameplate (Re-Rate)

|        |    |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 70 | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70  | 70      | 70      | 70      | 70   |

Motors can be re-nameplated (after approval) for alternate ratings. Changes in horsepower, altitude, ambient, voltage, frequency, etc.

Contact an NMC Technical Representative for approval prior to quoting.

#### Firepump Label

|        |    |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 5% | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 5%      | 5%      | 140     | -    |

UL® Listed (File E187977) firepump motors are designed per UL-1004A®† and meet the NFPA-20®† "Standard for the Installation of Centrifugal Fire Pump Spec".

This conversion is to add the firepump label.

Contact your NMC Technical Representative with exact rating to confirm that it meets the firepump requirements.

#### Paint, Special

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 322 | 322 | 322 | 322 | 596 | 596 | 596 | 596 | 596 | 596     | 1176    | 5%      | 5%   |

Special paint must be approved by the Conversion Center/Plant prior to quoting. A Material Safety Data Sheet (MSDS) must be sent to the Conversion Center/Plant for their review.

A special paint can be furnished (once approved) if compatible with our standard paint/primer, is commercially available, and suitable for air drying (paints containing lead or zinc cannot be used, and sand blasting is not available).

### Prints & Data (Submittals)

#### (Net Adders)

|        |      |      |      |      |      |      |      |      |      |         |         |         |      |
|--------|------|------|------|------|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56   | 140  | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP)    | (QP)    | (QP)    | (QP) |

Submittals adders are NET ADDERS. (QP) refer to Vertical motors quick pick chart.

The following submittals are considered standard submittals, and are available at no charge if requested at time of motor order:

- Certified Dimension Print
- Performance Data
- Nameplate Data
- Instruction Manual
- Wiring Diagram
- Parts List
- Recommended Spare Parts
- Bearing Life Calculation
- Conduit Box Details
- Paint Specification
- Rotor Air Gap (Calculated)
- Rotor Inertia
- Cut Sheets For Accessories

#### Screens

|        |    |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | -  | -   | 226 | 226 | 226 | 226 | 226 | 403 | 403 | 403     | 403     | -       | STD  |

Addition of rodent screens to ventilation openings on Open Dripproof motors.

#### Sealant, RTV

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 145 | 145 | 145 | 193 | 258 | 258 | 322 | 322 | 354 | 354     | 354     | -       | -    |

Silicon sealant applied to registers between the end bracket and frame and/or under bolt heads to prevent contaminants from entering the motor.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Shaft Seals, Inpro<sup>®†</sup> Type

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 230 | 230 | 230 | 230 | 350 | 350 | 475 | 475 | 475     | -       | -       | -    |

Inpro<sup>®†</sup> seal is standard on the shaft end of 841 PLUS<sup>®</sup> motors.

### Space Heaters

#### ODP or TEFC Motors

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 210 | 210 | 250 | 250 | 320 | 380 | 420 | 420 | 480 | 480     | 480     | 480     | 480  |

#### XP Motors

| Frame: | 56 | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | -  | 420 | 500 | 500 | 640 | 760 | 840 | 840 | 960 | 960     | -       | -       | -    |

Space heaters are installed to prevent moisture condensation in the motor during times the motor is not running. NMC uses silicon rubber strip-type heaters manufactured by sandwiching a resistance wire network between two pieces of high-temperature silicon rubber and bonding the pieces together. Heaters are sized to provide approximately 10°C temperature rise above the ambient temperature.

Heaters are placed on the end turns of the motor winding. Heaters are of the low density type, which yields low surface temperature and long life. Heaters are single phase, rated 60 or 50 Hertz.

Space Heaters are available in the following voltages:

115, 230, 460 & 575 Volt

230 Volt operated at 115 Volt

### Testing

#### Short Commercial Test, Un-Witnessed

| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Adder: | 282 | 282 | 282 | 282 | 612 | 612 | 612 | 612 | 612 | 612     | 612     | 380     | 380  |

A Short Commercial Test, per NEMA<sup>®†</sup> MG-1 Part 12, consists of no load current, locked rotor current (performed at reduced voltage, typically 25-50%), winding resistance, high potential, and bearing inspection. A test report is provided to the customer.

#### Complete Initial Test, Un-Witnessed

| Frame: | 56   | 140  | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
|--------|------|------|------|------|------|------|------|------|------|---------|---------|---------|------|
| Adder: | 2457 | 2457 | 2457 | 2457 | 3649 | 3649 | 3649 | 3649 | 3649 | 3649    | 3649    | 5230    | 8400 |

A Complete Initial Test consists of full load heat run, percent slip, no load current, full load current, locked rotor current, locked rotor torque, breakdown torque (calculated), efficiency & power factor at 100%, 75% & 50% full load, winding resistance, high potential, and bearing inspection. This test is performed in accordance with IEEE 112 Method B. A test report is provided to the customer. Motor will be shipped to an NMC facility with a calibrated lab for testing and will require additional leadtime.

Contact an NMC Technical Representative for availability and leadtime.

#### Complete Initial Test, Witnessed

| Frame: | 56   | 140  | 180  | 210  | 250   | 280   | 320   | 360   | 400   | 444-447 | 449(DP) | 449(TE) | 5000  |
|--------|------|------|------|------|-------|-------|-------|-------|-------|---------|---------|---------|-------|
| Adder: | 8506 | 8506 | 8506 | 8506 | 13782 | 13782 | 13782 | 13782 | 13782 | 13782   | 13782   | 7860    | 12150 |

A Complete Initial Test, as described above, performed in the presence of a Witness. Motor will be shipped to an NMC facility with a calibrated lab for testing and will require additional leadtime. Scheduling must be coordinated with the test facility.

Contact an NMC Technical Representative for availability and leadtime.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Testing *(continued)*

#### Megger Test

|        |     |     |     |     |      |      |      |      |      |         |         |         |      |
|--------|-----|-----|-----|-----|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 756 | 756 | 756 | 756 | 1474 | 1474 | 1474 | 1474 | 1474 | 1474    | 1474    | -       | -    |

### Thermal Protection, Windings

#### Thermostats

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 200 | 200 | 200 | 200 | 300 | 300 | 300 | 400 | 400 | 400     | 400     | 460     | 460  |

Thermostats: Snap action, bi-metallic, temperature actuated switches installed on the end-turns of the motor winding. Their purpose is to activate a warning device or shut down the motor upon excessive winding temperatures. Standard arrangement is addition of 2 or 3 thermostats to the winding end-turns, connected in series with the leads brought out to the main motor conduit box.

The following options are available:

TW01 Thermostats, normally closed

TW02 Thermostats, normally open

TW06 Thermostats, normally closed, hermetically sealed

#### Thermistors

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725 | 725     | 725     | -       | -    |

Thermistors: Non-linear resistance temperature detector made from semi-conductor material. Standard arrangement is Q-3 positive temperature coefficient (PTC) type on winding end-turns with leads brought out to the main motor conduit box.

Available on non-Explosionproof motors.

The following options are available:

TW10 Thermistors (PTC Type), Texas Instruments®, 6 leads out

#### THERMA SENTRY®

|        |      |      |      |      |      |      |      |      |      |         |         |         |      |
|--------|------|------|------|------|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56   | 140  | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 1740 | 1740 | 1740 | 1740 | 1820 | 1820 | 1820 | 1820 | 1820 | 1820    | 1820    | 1130    | 1130 |

THERMA SENTRY®: Complete protection system consisting of three thermistors and a solid state control module (shipped loose for customer mounting). It will protect the motor for locked rotor, starting overload, running overload, abnormally high ambient temperatures, voltage unbalance, high or low voltages, ventilation failure, and single phasing.

Available on non-Explosionproof motors.

The following options are available:

TW20 THERMA SENTRY®, 115/230V, SMSE, normally closed contact

(SMSE = separately mounted, separately excited control module)

#### Thermocouples

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 209 | 209 | 209 | 209 | 419 | 419 | 419 | 419 | 419 | 419     | 2417    | -       | -    |

Thermocouples: A pair of dissimilar conductors so joined at one point that an electromotive force is developed by the thermoelectric effects. Standard arrangement is addition of thermocouples to the winding end-turns with leads brought out to the main motor conduit box.

Available on non-Explosionproof motors.

The following options are available:

TW32 Thermocouples, Iron Constantan (Type J)

### Tropicalization / High Moisture Protection

|        |     |     |     |     |     |     |     |     |     |         |         |         |      |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|------|
| Frame: | 56  | 140 | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | 242 | 242 | 242 | 242 | 354 | 354 | 354 | 354 | 612 | 612     | 612     | -       | -    |

Winding coated with Dolph® polyurethane for superior protection in high moisture environments.

† All marks shown within this document are properties of their respective owners.



# Horizontal Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Vector Encoder / Blower With Shroud Conversion

#### Blower

|        |    |     |     |      |      |      |      |      |      |         |         |         |      |
|--------|----|-----|-----|------|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56 | 140 | 180 | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | -  | 644 | 886 | 1047 | 1168 | 1450 | 1450 | 1450 | 2014 | 2658    | -       | 2500    | -    |

To convert a Hostile Duty inverter duty motor (Type CTI or JEI) to include a blower.

#### Encoder

|        |    |     |      |      |      |      |      |      |      |         |         |         |      |
|--------|----|-----|------|------|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56 | 140 | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | -  | -   | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 | 1450    | -       | 900     | -    |

To convert a Hostile Duty inverter duty motor (Type CTI or JEI) to include an encoder. Specify 1024 PPR or 2048 PPR on the order.

#### Encoder w/Bendix®† Connector

|        |    |      |      |      |      |      |      |      |      |         |         |         |      |
|--------|----|------|------|------|------|------|------|------|------|---------|---------|---------|------|
| Frame: | 56 | 140  | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 |
| Adder: | -  | 1723 | 2415 | 2576 | 2697 | 2979 | 2979 | 2979 | 3542 | 4186    | -       | 950     | -    |

To convert a Hostile Duty inverter duty motor (Type CTI or JEI) to include an encoder with a 10-Pin Bendix®† connector, in place of the standard 9-pin Sub-D Connector. Specify Bendix®† (Code-X) 10-pin connector on the order.

† All marks shown within this document are properties of their respective owners.





## Integral Horsepower Motor Type Code Identification Chart

### Horizontal Motors

| Type Code | Motor Description        | Phase       | Efficiency         |
|-----------|--------------------------|-------------|--------------------|
| CE        | 841 PLUS®                | Three Phase | Premium Efficient  |
| CTE       | Hostile Duty TEFC        | Three Phase | Premium Efficient  |
| CTI       | Hostile Duty TEFC        | Three Phase | Inverter Duty      |
| FCT       | Hostile Duty TEFC        | Three Phase | Energy Efficient   |
| DE, RE    | Open Dripproof           | Three Phase | Premium Efficient  |
| FUT       | UNIMOUNT® TEFC           | Three Phase | Energy Efficient   |
| JDE       | Automotive Duty          | Three Phase | Energy Efficient   |
| TCE       | CORRO-DUTY® TEFC         | Three Phase | Premium Efficient  |
| TCI       | CORRO-DUTY® TEFC         | Three Phase | Inverter Duty      |
| UT        | UNIMOUNT® TEFC           | Three Phase | Standard Efficient |
| UTE       | UNIMOUNT® TEFC           | Three Phase | Premium Efficient  |
| UTF       | UNIMOUNT® TEFC, Footless | Three Phase | Standard Efficient |

† All marks shown within this document are properties of their respective owners.



# Vertical Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Bearings

#### Extra High Thrust (175%)

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | -   | -   | -   | -   | 5%  | 5%  | 5%  | 5%      | 5%  | 5%   |

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI &amp; HUSI).

### Coupling

#### Change to Alternate Coupling Size

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | NC  | NC   |

Standard drive coupling can be changed to an alternate size at no charge, if specified at time of motor order.

### Conduit Boxes

#### Accessory Conduit Box

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 901 | 901 | 901 | 901 | 901 | 901 | 901 | 901     | 901 | 901  |

A conduit can be added to the main motor conduit box for routing of accessory leads.

Available on WPI and TEFC (not Explosionproof) ratings.

#### Rotate Conduit Box

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235     | 235 | 235  |

Standard conduit box has lead opening facing down. This conversion includes rotating the conduit box so the lead opening is facing the desired direction.

Specify direction of lead opening: Facing up; Facing left (when facing the conduit box); Facing right (when facing the conduit box)

Available at no charge if specified at time of motor order.

#### Cast Iron Conduit Box

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | -   | -   | -   | -   | 293 | 469 | 587 | 704     | -   | -    |

Replacement of steel conduit box with cast iron version.

Available on HOLLOSHAFT® &amp; high thrust Solid Shaft, 320 frame and larger, non-Explosionproof motors (cast iron conduit box standard on XP).

#### Size 3 Cast Iron Box (2-3.5 NPT Openings)

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400  | 444-447 | 449  | 5000 |
|--------|-----|-----|-----|-----|-----|-----|------|---------|------|------|
| Adder: | -   | -   | -   | -   | -   | -   | 3477 | 3477    | 3477 | 3477 |

### Division 2 Self Certified & Division 2 CSA<sup>®†</sup> Certified

#### (+) Refer To The Charts Below For Pricing

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | (+) | (+) | (+) | (+) | (+) | (+) | (+) | (+)     | -   | -    |

The following restrictions apply:

Only available on TEFC – TV/TVCS Motor Type models

Not available (not applicable) on UL Listed Hazardous Location motors.

Zone 2 markings available on separate Division 2 nameplate options.

Contact an NMC Technical Representative to confirm availability.

Temp codes T-4 to T-6 not available.

Must use premium efficient motors.

Inverter duty limited to T1-T3.

Class II not available

On TVCS &amp; TCEF Models Only.

† All marks shown within this document are properties of their respective owners.



# Vertical Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Division 2 Self Certified & Division 2 CSA<sup>®†</sup> Certified (continued)

#### Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On TVCS & TCEF Models – Standard Rating ONLY)

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | -   | -    |

Contact an NMC Technical Representative to confirm availability.

#### Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100     | -   | -    |

Contact an NMC Technical Representative to confirm availability.

#### Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100     | -   | -    |

Contact an NMC Technical Representative to confirm availability.

Group E is not available

Class II is not available on Open Drip Proof (ODP) motors

#### Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100     | -   | -    |

Contact an NMC Technical Representative to confirm availability.

CSA is not available on Open Drip Proof (ODP) motors

## Drains (Breather/Drains)

### T-Type Breather/Drain

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 70  | 70  | 94  | 94  | 94  | 117 | 117 | 117     | -   | -    |

Install T-Type breather/drains in place of standard drains.

Available on 180-447 frame cast iron enclosed motors.

## Export Boxing

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | (@) | (@) | (@) | (@) | (@) | (@) | (@) | (@)     | (@) | (@)  |

Product is boxed, packaged or crated as required for under deck exporting.

(@) Refer to Optional Export Packing Charges Section.

## Flanges

### Change P-Base Bracket to Alternate "BD" Dimension

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | NC  | NC   |

Replace standard "P" base bracket with one of different "BD" dimension.

Available at no charge if specified at time of motor order.

## Ground Lug

### In Conduit Box

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108     | 108 | 108  |

Addition of ground lug in main motor conduit box.

† All marks shown within this document are properties of their respective owners.



# Vertical Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Leads

#### Tie Back Leads

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 399 | 587 | 587 | 892 | 892 | 892 | 892 | 892     | -   | -    |

Reconnect dual voltage 9-lead or 12-lead motors to 3-lead single voltage. Tie back and connect leads inside frame for single voltage 3-lead conduit box connections.

Specify desired voltage when ordering.

Available on non-Explosionproof motors.

### Nameplates

#### Additional Duplicate Nameplate

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 399 | 587 | 587 | 892 | 892 | 892 | 892 | 892     | -   | -    |

An additional duplicate nameplate for mounting on customer equipment. These additional nameplates cannot be supplied with CSA®† or UL®† logos.

#### Additional Stamping On Main Nameplate

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235     | 235 | 235  |

The main motor nameplate can be stamped with limited customer tagging information (20 characters max).

#### Shipping Tag (#6 Paper Tag)

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | NC  | NC   |

A #6 paper shipping tag, with customer tagging information, can be supplied at no charge when specified at time of motor order.

#### Special I.D. Plate

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235     | 235 | 235  |

Special identification plates can be mounted on the motor with limited customer specified tagging information (100 characters max).

#### Re-Nameplate (Re-Rate)

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235     | 235 | 235  |

Motors can be re-nameplated (after approval) for alternate ratings. Changes in horsepower, altitude, ambient, voltage, frequency, etc.

Contact an NMC Technical Representative for approval prior to quoting.

#### Firepump Label

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 5%      | 5%  | 5%   |

Percentage adders are percent of base list price. UL®† Listed (File E187977) firepump motors are designed per UL-1004A®† and meet the NFPA-20®† "Standard for the Installation of Centrifugal Fire Pump Spec". This conversion is to add the firepump label.

Contact your NMC Technical Representative with exact rating to confirm that it meets the firepump requirements.

### Non-Reverse Ratchet

#### Bolted Coupling - Add or Remove

|        |     |     |     |     |     |     |     |         |     |      |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
| Adder: | NC  | NC  | NC  | NC  | NC  | NC  | NC  | NC      | NC  | NC   |

Remove non-reverse ratchet (NRR) and convert motor to self-release coupling (SRC) or bolted coupling.

Available at no charge if specified at time of motor order.

† All marks shown within this document are properties of their respective owners.



# Vertical Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Non-Reverse Ratchet *(continued)*

#### Clockwise Non-Reverse Ratchet

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | -   | -   | -   | -   | 5%  | 5%  | 5%  | 5%      | 5%  | 5%   |

Remove non-reverse ratchet (NRR) and (Counter Clockwise Rotation) and replace with a Clockwise Rotation (when looking down on the motor) non-reverse ratchet.

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI & HUSI)

### Oil Sump Heaters

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | -   | -   | -   | -   | 469 | 469 | 563 | 563     | -   | -    |

Oil Sump Heaters are recommended for applications where the ambient temperature is consistently below -5°C (23°F) and required where the ambient is consistently below -15°C (5°F). Standard unit is 115 Volt single phase.

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI)

### Paint, Special

#### Special Paint

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449  | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|------|------|
| Adder: | 469 | 469 | 869 | 869 | 869 | 869 | 869 | 869     | 1714 | 1714 |

Special paint must be approved by the Conversion Center/Plant prior to quoting. A Material Safety Data Sheet (MSDS) must be sent to the Conversion Center/Plant for their review.

A special paint can be furnished (once approved) if compatible with our standard paint/primer, is commercially available, and suitable for air drying (paints containing lead or zinc cannot be used, and sand blasting is not available).

### Prints & Data (Submittals)

#### (Net Adders)

| Frame: | 56   | 140  | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449(DP) | 449(TE) | 5000 | 5800 |
|--------|------|------|------|------|------|------|------|------|------|---------|---------|---------|------|------|
| Adder: | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP) | (QP)    | (QP)    | (QP)    | (QP) | (QP) |

Submittals adders are NET ADDERS. (QP) refer to Vertical motors quick pick chart.

The following submittals are considered standard submittals, and are available at no charge if requested at time of motor order:

- Certified Dimension Print
- Performance Data
- Nameplate Data
- Instruction Manual
- Wiring Diagram
- Parts List
- Recommended Spare Parts
- Bearing Life Calculation
- Conduit Box Details
- Paint Specification
- Rotor Air Gap (Calculated)
- Rotor Inertia
- Cut Sheets For Accessories

### Space Heaters

#### (Double Adder for Explosionproof Motors)

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449  | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|------|------|
| Adder: | 477 | 477 | 512 | 512 | 596 | 643 | 643 | 643     | 1326 | 1326 |

Space heaters are installed to prevent moisture condensation in the motor during times the motor is not running. NMC uses silicon rubber strip-type heaters manufactured by sandwiching a resistance wire network between two pieces of high-temperature silicon rubber and bonding the pieces together. Heaters are sized to provide approximately 10°C temperature rise above the ambient temperature.

Heaters are placed on the end turns of the motor winding. Heaters are of the low density type, which yields low surface temperature and long life. Heaters are single phase, rated 60 or 50 Hertz.

Space Heaters are available in the following voltages:

115, 230, 460 & 575 Volt

230 Volt operated at 115 Volt



# Vertical Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Steady Bushing Kit

(Attached To Motor Eyebolt)

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 202 | 202 | 202 | 202 | 300 | 300 | 300 | 300     | 418 | 418  |

Steady bushing comes as a field-installable kit, and is shipped attached to the motor eyebolt.

### Tests

#### Short Commercial Test, Un-Witnessed

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 662 | 662 | 662 | 662 | 662 | 662 | 662 | 662     | 662 | 662  |

All test adders are NET ADDERS

A Short Commercial Test, per NEMA<sup>®</sup> MG-1 Part 12, consists of no load current, locked rotor current (performed at reduced voltage, typically 25-50%), winding resistance, high potential, and bearing inspection. A test report is provided to the customer.

#### Complete Initial Test, Un-Witnessed

| Frame: | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449  | 5000 |
|--------|------|------|------|------|------|------|------|---------|------|------|
| Adder: | 3580 | 3580 | 5317 | 5317 | 5317 | 5317 | 5317 | 5317    | 5317 | -    |

All test adders are NET ADDERS

A Complete Initial Test consists of full load heat run, percent slip, no load current, full load current, locked rotor current, locked rotor torque, breakdown torque (calculated), efficiency & power factor at 100%, 75% & 50% full load, winding resistance, high potential, and bearing inspection. This test is performed in accordance with IEEE 112 Method B. A test report is provided to the customer. Motor will be shipped to an NMC facility with a calibrated lab for testing and will require additional leadtime.

Contact an NMC Technical Representative for availability and leadtime.

### Thermal Protection, Bearings (Upper Bracket)

#### Resistance Temperature Detectors (RTD's), 10 or 120 Ohm

| Frame: | 180 | 210 | 250 | 280 | 320  | 360  | 400  | 444-447 | 449  | 5000 |
|--------|-----|-----|-----|-----|------|------|------|---------|------|------|
| Adder: | -   | -   | -   | -   | 1338 | 1338 | 1338 | 1338    | 1338 | 1338 |

Resistance Temperature Detector (RTD): Precision, wire-wound resistors with a known temperature-resistance characteristic. NMC does not furnish the monitor.

Available only on Premium Efficient Vertical HOLLOSHAFT<sup>®</sup> WPI (Type RUSI & HUSI). Available on Upper Bracket Only.

The following options are available:

TB40 10 Ohm, 3 lead

TB41 120 Ohm, 2 lead

TB42 100 Ohm, 3 lead

#### Resistance Temperature Detectors (RTD's), 100 Ohm

| Frame: | 180 | 210 | 250 | 280 | 320  | 360  | 400  | 444-447 | 449  | 5000 |
|--------|-----|-----|-----|-----|------|------|------|---------|------|------|
| Adder: | -   | -   | -   | -   | 1338 | 1338 | 1338 | 1338    | 1338 | 1338 |

Resistance Temperature Detector (RTD): Precision, wire-wound resistors with a known temperature-resistance characteristic. NMC does not furnish the monitor.

Available only on Premium Efficient Vertical HOLLOSHAFT<sup>®</sup> WPI (Type RUSI & HUSI). Available on Upper Bracket Only.

The following option is available:

TB42 100 Ohm, 3 Lead

### Thermal Protection, Windings

#### Thermostats (Double Adder for Explosionproof Motors)

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 265 | 265 | 265 | 265 | 418 | 519 | 519 | 519     | 519 | 519  |

Thermostats: Snap action, bi-metallic, temperature actuated switches installed on the end-turns of the motor winding. Their purpose is to activate a warning device or shut down the motor upon excessive winding temperatures. Standard arrangement is addition of 2 or 3 thermostats to the winding end-turns, connected in series with the leads brought out to the main motor conduit box.

The following options are available:

TW01 Thermostats, normally closed

TW02 Thermostats, normally open

TW06 Thermostats, normally closed, hermetically sealed

† All marks shown within this document are properties of their respective owners.



# Vertical Motors Conversions & Accessories

## Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

### Thermal Protection, Windings *(continued)*

#### Thermistors

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 472 | 472 | 472 | 472 | 669 | 669 | 876 | 876     | 876 | 876  |

Thermistors: Non-linear resistance temperature detector made from semi-conductor material. Standard arrangement is Q-3 positive temperature coefficient (PTC) type on winding end-turns with leads brought out to the main motor conduit box.

Available on non-Explosionproof motors.

The following options are available:

TW10 Thermistors (PTC Type), Texas Instruments®, 6 leads out

#### THERMA SENTRY®

| Frame: | 180 | 210 | 250 | 280 | 320 | 360 | 400 | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------|
| Adder: | 587 | 587 | 587 | 587 | 587 | 587 | 587 | 1150    | -   | -    |

THERMA SENTRY®: Complete protection system consisting of three thermistors and a solid state control module (shipped loose for customer mounting). It will protect the motor for locked rotor, starting overload, running overload, abnormally high ambient temperatures, voltage unbalance, high or low voltages, ventilation failure, and single phasing.

Available on non-Explosionproof motors.

The following options are available:

TW20 THERMA SENTRY®, 115/230V, SMSE, normally closed contact  
(SMSE = separately mounted, separately excited control module)

#### Thermocouples

| Frame: | 180  | 210  | 250  | 280  | 320  | 360  | 400  | 444-447 | 449  | 5000 |
|--------|------|------|------|------|------|------|------|---------|------|------|
| Adder: | 3434 | 3434 | 3434 | 3434 | 3434 | 3434 | 3434 | 3434    | 3434 | 3434 |

Thermocouples: A pair of dissimilar conductors so joined at one point that an electromotive force is developed by the thermoelectric effects. Standard arrangement is addition of thermocouples to the winding end-turns with leads brought out to the main motor conduit box.

Available on non-Explosionproof motors.

The following options are available:

TW32 Thermocouples, Iron Constantan (Type J)

#### Vibration Detector

##### Robertshaw®†, Model 366

| Frame: | 180 | 210 | 250 | 280 | 320  | 360  | 400  | 444-447 | 449 | 5000 |
|--------|-----|-----|-----|-----|------|------|------|---------|-----|------|
| Adder: | -   | -   | -   | -   | 1878 | 1878 | 1878 | 1878    | -   | -    |

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI).



## Optional Export Packing Charges (Export Boxing)

NMC can provide export packaging at our international warehouse in Southaven, MS. Material used is 2" X 4" for framing, and 1/2" plywood for walls when export boxed. The conduit box is removed and placed in the box with the motor. Shipping marks are stenciled to the outside of the box.

The following net adders and lead times are to be used for this option:

### NEMA<sup>®†</sup> Frame Sizes

| Horizontal Motors |         |            | Vertical Motors |         |            | Lead Time<br>(Weeks) |
|-------------------|---------|------------|-----------------|---------|------------|----------------------|
| Frame Size        | Crating | Export Box | Frame Size      | Crating | Export Box |                      |
| 140               | \$42    | \$70       | 140             | \$42    | \$84       | 1                    |
| 180               | \$42    | \$84       | 180             | \$42    | \$84       | 1                    |
| 210               | \$49    | \$91       | 210             | \$50    | \$84       | 1                    |
| 250               | \$59    | \$105      | 250             | \$59    | \$84       | 1                    |
| 280               | \$59    | \$105      | 280             | \$59    | \$98       | 1                    |
| 320               | \$84    | \$154      | 320             | \$84    | \$129      | 1                    |
| 360               | \$91    | \$175      | 360             | \$119   | \$168      | 1                    |
| 400               | \$140   | \$280      | 400             | \$189   | \$238      | 2                    |
| 444-445           | \$224   | \$350      | 444-445         | \$266   | \$357      | 2                    |
| 447-449           | \$364   | \$469      | 447-449         | \$357   | \$616      | 2                    |

### TITAN<sup>®</sup> Frame Sizes (Export box only for horizontal and vertical motors)

| Frame Size | Net Adder | Lead Time (Weeks) |
|------------|-----------|-------------------|
| 5000       | \$1,176   | 2                 |
| 5800       | \$1,414   | 2                 |
| 6800       | \$2,114   | 2                 |
| 8000       | \$4,312   | 2                 |
| 9600       | \$6,076   | 2                 |

### Container Loading (Including stacking and bracing)

|                   |             |
|-------------------|-------------|
| 20 foot container | \$1,250 Net |
| 40 foot container | \$2,000 Net |

### Replacement Parts

Standard export packing in wooden boxes 5% net value (minimum \$77 per box)

### Storage

Long term storage – refer to NMC

First 30 days free – additional storage at \$.80/100 lbs. for 30 days or each fraction thereof.

All above charges are subject to change without notice.

<sup>†</sup> All marks shown within this document are properties of their respective owners.





## Product Specification Guide

### Standard Stock or Mod-Center Three Phase Motor Features

|                      | Dripproof (ODP)          |                  |                          |                  | Totally Enclosed Fan Cooled (TEFC) |                      |                          |                      |                   |
|----------------------|--------------------------|------------------|--------------------------|------------------|------------------------------------|----------------------|--------------------------|----------------------|-------------------|
| Type                 | FD                       | FR               | DE, DI                   | RE, RI           | FUT/FUTF                           | FCT                  | UTE/UTI                  | CTE                  | CTI-v(a)/CTI-C(a) |
| HP Range             | 1-60                     | 30-400           | 1-60                     | 30-250           | 1-30                               | 1-200                | 1-30/1-20                | 1-200                | 1-200/1-150       |
| Frame Range          | 143-320                  | 360-449          | 143-320                  | 360-449          | 56-A286                            | 143-447              | 143-256                  | 143-447              | 143-447           |
| Frame Material       | Steel                    | Cast Iron        | Steel                    | Cast Iron        | Alum. (1)                          | Cast Iron (1)        | Alum. (1)                | Cast Iron (1)        | Cast Iron (1)     |
| End Shield Material  | 140-250 AI<br>280-320 CI | Cast Iron        | 140-250 AI<br>280-320 CI | Cast Iron        | Alum.                              | Cast Iron            | Alum.                    | Cast Iron            | Cast Iron         |
| Fan Cover Material   | NA                       | NA               | NA                       | NA               | Plastic                            | Steel                | Plastic                  | Steel                | Steel             |
| Conduit Box Material | Steel                    | Steel            | Steel                    | Steel            | Steel (2)                          | Steel                | Steel (2)                | Steel                | Steel             |
| Hardware             | Grade 5 (15)             | Grade 5 (15)     | Grade 5 (15)             | Grade 5 (15)     | Std                                | Grade 5 (15)         | Std                      | Grade 5 (15)         | Grade 5 (15)      |
| Mounting             | Welded Base              | Cast Iron        | Welded Base              | Cast             | Bolted Base/<br>Footless           | Cast<br>180-440      | Bolted Base/<br>Footless | Cast<br>180-440      | Cast<br>180-440   |
| C-Face Available     | No                       | No               | No                       | No               | Kits (6)/<br>Std                   | Kits Thru<br>440 (5) | Kits (6)/<br>Std         | Kits Thru<br>440 (5) | Kits<br>140-440   |
| D-Flange             | No                       | No               | No                       | No               | Kits<br>140-180 (6)                | Kits<br>140-180 (6)  | Kits<br>140-180 (6)      | Kits<br>140-360 (5)  | Kits<br>180-360   |
| Brakes               | No                       | No               | No                       | No               | Kits Thru 210                      | No                   | Kits Thru 210            | No                   | No                |
| Grounding            | Stud in<br>C/Box         | Stud in<br>C/Box | Stud in<br>C/Box         | Stud in<br>C/Box | Stud in<br>C/Box                   | Stud in<br>C/Box     | Stud in<br>C/Box         | Stud in<br>C/Box     | Stud in<br>C/Box  |

|                      | Severe Duty     | IEEE-841            | Hazardous Location |                  | Vector Duty        | Automotive Duty               | Washdown Duty             | Brake Motors      | IEC               | TEAO                |
|----------------------|-----------------|---------------------|--------------------|------------------|--------------------|-------------------------------|---------------------------|-------------------|-------------------|---------------------|
| Type                 | TCE             | CE                  | FL/LF/LE           | FLC/LCE          | CTNX/CTX           | JDEF                          | FWEN/FWEF/FWER            | BRST/BRCO         | MMLS              | UTN                 |
| HP Range             | 1-200           | 1-200               | 1/2-150<br>1/3-15  | 1-100            | 1-10<br>1-200      | 1-100<br>1-100<br>1/4-300     | 1-10                      | 1/3-2<br>1/3-20   | 1.5-200           | 1-15                |
| Frame Range          | 143-447         | 143-447             | 56-445<br>56-256   | 143-444          | 143-256<br>143-447 | 180-447<br>180-445<br>56-5008 | 143-215                   | 56-145<br>56-256  | 80-315            | 143-254             |
| Frame Material       | Cast Iron (1)   | Cast Iron           | Cast Iron (1)      | Cast Iron (1)    | Cast Iron (1)      | Cast Iron (1)                 | Steel                     | Alum.             | Alum.             | Alum. (1)           |
| End Shield Material  | Cast Iron       | Cast Iron           | Cast Iron          | Cast Iron        | Cast Iron          | Cast Iron                     | DE-Cast Iron<br>ODE-Alum. | Alum.             | Alum.             | Alum.               |
| Fan Cover Material   | Cast Iron       | Cast Iron           | Steel              | Cast Iron        | NA/<br>Steel       | Steel                         | Steel                     | Steel             | Steel             | NA                  |
| Conduit Box Material | Cast Iron       | Cast Iron           | Cast Iron (3)      | Cast Iron (3)    | Steel              | Steel                         | Steel                     | Alum.             | Alum.             | Steel (2)           |
| Hardware             | Grade 5 (15)    | Grade 5 (15)        | Grade 5 (15)       | Grade 5 (15)     | Std                | Grade 5 (15)                  | Stainless Steel           | Std               | Std               | Std                 |
| Mounting             | Cast<br>180-440 | Cast<br>180-440     | Cast<br>180-440    | Cast<br>180-440  | Cast<br>180-440    | Cast<br>180-5008              | Welded<br>Base            | Cast<br>(17)      | Cast<br>(17)      | Bolted<br>Base      |
| C-Face Available     | Kits<br>140-440 | Kits<br>140-440     | Yes                | No               | No                 | Kits Thru<br>360              | No/Yes/Yes                | Yes               | Kits<br>80-132    | Kits (6)            |
| D-Flange             | Kits<br>180-360 | Kits<br>180-360     | No                 | No               | No                 | Kits Thru<br>440              | No                        | No                | NA                | Kits<br>140-180 (6) |
| Brakes               | No              | No                  | No                 | No               | No                 | Kits 140-360                  | No                        | Std               | No                | Kits Thru 210       |
| Grounding            | Lug in<br>C/Box | C/Box &<br>External | Stud in<br>C/Box   | Stud in<br>C/Box | Stud in<br>C/Box   | Stud in<br>C/Box              | Stud in<br>C/Box          | Terminal<br>Block | Terminal<br>Block | Stud in<br>C/Box    |

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# Product Specification Guide

## Standard Stock or Mod-Center Three Phase Motor Features

|                      | Dripproof (ODP)           |              |             |                     | Totally Enclosed Fan Cooled (TEFC) |                 |                 |                 |
|----------------------|---------------------------|--------------|-------------|---------------------|------------------------------------|-----------------|-----------------|-----------------|
|                      |                           | C-Face       | Split Phase | STD Crop Dryer      |                                    |                 | C-Face          |                 |
| Type                 | SOR / SORM / SOC          | SOF          | SSOC        | DM/DMA              | SER, SM                            | SEFM            | SEF             | SEFM            |
| HP Range             | 1/4-1.5 / 1/4-1.5 / 1/4-1 | 1/4-1.5      | 1/4-1/3     | 1-10/5-12           | 1/4-10                             | 1/3-1           | 1/4-2           | 1/4-1           |
| Frame Range          | 48-56                     | 56           | 48/56       | 143-215             | 48-215                             | 48-56           | 56-145          | 56-145          |
| Frame Material       | Steel                     | Steel        | Steel       | Steel               | Steel                              | Steel           | Steel           | Steel           |
| End Shield Material  | Alum.                     | Alum.        | Alum.       | Alum.               | Alum.                              | Alum.           | Alum.           | Alum.           |
| Fan Cover Material   | NA                        | NA           | NA          | NA                  | Steel                              | Steel           | Steel           | Steel           |
| Conduit Box Material | NA                        | Steel        | NA          | Steel               | Steel                              | Steel           | Steel           | Steel           |
| Mounting             | Welded                    | C-Face Round | Resilient   | Welded              | Bolt-on (2)                        | Bolt-on (2)     | C-Face Round    | C-Face Round    |
| Service Factor       | 1.25+(3)                  | 1.15+        | 1.35        | 1.15/<br>Special    | 1.15 (3)                           | 1.00 (3)        | 1.15            | 1.15            |
| Insulation Class     | B                         | B            | B           | B                   | B                                  | B               | B               | B               |
| Thermal Protection   | None/Manual/<br>Auto      | None         | Auto        | None/<br>Thermostat | None                               | Manual          | None            | Manual          |
| Shaft Slinger        | No                        | No           | No          | No                  | No                                 | No              | No              | No              |
| Bearing Type         | Sealed                    | Sealed       | Sleeve      | Double<br>Shielded  | Sealed<br>C/Box                    | Sealed<br>C/Box | Sealed<br>C/Box | Sealed<br>C/Box |
| Page                 | 160                       | 164          | 158         | 220                 | 165                                | 165             | 167             | 167             |

|                      | Agri<br>Duty        | Agri Duty<br>Ultra Torque |           | Aeration<br>Fan | Hazardous<br>Location | Jet Pump     | Close Coupled<br>Pump | Washdown<br>Duty |
|----------------------|---------------------|---------------------------|-----------|-----------------|-----------------------|--------------|-----------------------|------------------|
| Type                 | SMA                 | TMA                       | TMQ       | SN              | SLR, SLF              | SOJ          | UTM                   | SEFM             |
| HP Range             | 1/3-1               | 1.5-10                    | 1-10      | 3/4-1           | 1/4-1                 | 1/3-1.5      | 3-10                  | 1/4-1            |
| Frame Range          | 56                  | 143-215                   | 143-215   | 56              | 56                    | 56           | 184-215               | 56-145           |
| Frame Material       | Steel               | Steel                     | Alum.     | Steel           | Steel                 | Steel        | Alum.                 | Steel            |
| End Shield Material  | Alum.               | Alum.                     | Alum.     | Alum.           | Alum.                 | Alum.        | Alum.                 | Alum.            |
| Fan Cover Material   | Steel               | Steel                     | Plastic   | NA              | Steel                 | Plastic      | Plastic               | Steel            |
| Conduit Box Material | Alum.               | Alum. (1)                 | Alum. (1) | NA              | NA                    | Steel        | Alum.                 | Steel            |
| Mounting             | Welded              | Welded                    | Bolt-on   | Welded          | Welded/C-Face         | C-Face Round | Bolt-on               | C-Face Footed    |
| Service Factor       | 1.15                | 1.00                      | 1.15      | 1.00            | 1.20+                 | 1.20+        | 1.15                  | 1.15             |
| Insulation Class     | B                   | F                         | F         | B               | B                     | B            | F                     | F with B Rise    |
| Thermal Protection   | Manual              | Manual                    | Manual    | Auto            | Auto                  | Auto         |                       |                  |
| Shaft Slinger        | Yes                 | Yes                       | Yes       | No              | No                    | No           | Yes                   | Yes              |
| Bearing Type         | Sealed/<br>Shielded | Sealed                    | Shielded  | Sealed          | Sealed                | Sealed       | Double<br>Shielded    | Double<br>Sealed |
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- (a) CTI-V is 10:1 Variable Torque, CTI-C is 10:1 Constant Torque Inverter Duty  
 (b) JAD, JADF & JDE are 65°C Alternate Ambient at 1.0SF  
 (c) CTI-C and CTNX are NEMA<sup>®</sup> Design 'A'  
 (d) 50/60 Hz on 230/460 volt & 460 volt only, 60 Hz on 200 & 575 volt

- (1) 56 and 140 Frame is Rolled Steel  
 (2) Aluminum on 250 and A280 Frame  
 (3) 56 Frame is Steel  
 (4) "Inverter Grade" Insulation Meets NEMA<sup>®</sup> MG1, Part 31  
 (5) 140-250 Frame 'BA' dimension is non-NEMA<sup>®</sup>

- (6) 56 and 140 Frame 'BA' Dimension is non-NEMA<sup>®</sup>  
 (7) 'B' rise on 60Hz only  
 (8) 'B' rise @ 1.0 SF on Sine Wave Power only  
 (9) Sealed on 56 and 140 Frame  
 (10) 1.0 SF on Inverter Power  
 (11) 360 Frame is Double Shielded

- (12) Open  
 (13) Open Bearing 400-440 Frame  
 (14) Double Shielded 140 Frame  
 (15) Zinc Plated  
 (16) Sealed to 132, Semi-protected 160-200, Open 225 and Above  
 (17) 200 & 225 Bolt-on Base

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Sorted by Catalog Number

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| 26        | \$10       | 191    | 1342      | \$126      | 173    | 1864      | \$115      | 178     |
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| 30        | \$14       | 191    | 1391      | \$163      | 174    | 1868H     | \$162      | 165     |
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| 430       | \$316      | 184    | 1694      | \$235      | 178    | 1880      | \$254      | 163     |
| 431       | \$344      | 184    | 1695      | \$240      | 178    | 1881      | \$333      | 163     |
| 600       | \$236      | 178    | 1696      | \$250      | 178    | 1882      | \$385      | 164     |
| 601       | \$218      | 178    | 1697      | \$255      | 178    | 1887      | \$271      | 177     |
| 602       | \$299      | 178    | 1699      | \$265      | 178    | 1888      | \$358      | 166     |
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| 841CV     | \$133      | 182    | 1786      | \$389      | 182    | 1901      | \$178      | 161     |
| 872       | \$310      | 217    | 1789      | \$404      | 182    | 1917      | \$415      | 189,206 |
| 1003      | \$174      | 217    | 1790      | \$317      | 184    | 1924      | \$489      | 189,206 |
| 1004      | \$145      | 217    | 1810      | \$404      | 181    | 1931      | \$384      | 206     |
| 1042      | \$206      | 176    | 1811      | \$409      | 181    | 1931      | \$384      | 189     |
| 1043      | \$282      | 176    | 1813      | \$450      | 171    | 1933      | \$405      | 189,206 |
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| T1CM2J14CR | \$700      | 109,152     |
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| T1CM2JH    | \$577      | 149         |
| T1CM2ZC    | \$760      | 108,151     |
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| U3P1G     | \$767      | 3,6             |
| U3P1GF    | \$605      | 3,9             |
| U3P1H     | \$767      | 3,6             |
| U3P1HF    | \$605      | 3,9             |
| U3P2D     | \$678      | 3,6,203         |
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| U3P2DCR   | \$742      | 15,17,93,95,213 |
| U3P2DK    | \$772      | 11,87,89,213    |
| U3P2DKR   | \$742      | 15,17,93,95     |
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