BALDOR · RELIANCE



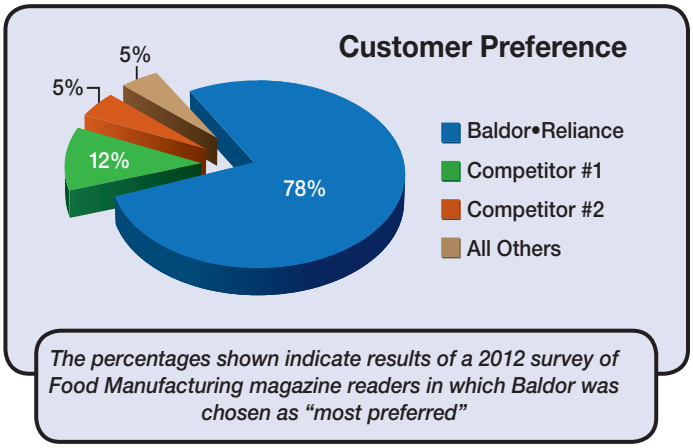

Washdown Duty Products

BALDOR®

A MEMBER OF THE ABB GROUP

BALDOR
A MEMBER OF THE ABB GROUP

Why Baldor?



The percentages shown indicate results of a 2012 survey of Food Manufacturing magazine readers in which Baldor was chosen as "most preferred"

For nearly a century, Baldor has strived to provide customers with the best value and reliability in industrial electric motors. That dedication shows in customer preference for Baldor•Reliance motors. To be considered as the most preferred…

Baldor offers the industry's broadest line of stock products. Save valuable time with just one call to Baldor. We offer more than 10,000 stock motors, drives and gearboxes.

Energy-efficiency leader. We began lowering the energy consumption of our motors in the 1920s, long before others were even talking about it. Today, our expansive line of Baldor Super-E® premium-efficient motors ranges from 1 through 15,000 hp. Baldor's Super-E line offers customers the highest overall efficiency levels in the industry.

Continuous innovation to improve reliability. Baldor leads the motor industry in applying new technologies and materials to improve motor reliability. Recent improvements to the line of Washdown Duty motors are further proof that Baldor is the leader in motors for food and pharmaceutical processing and handling applications. These improvements are explained in detail on the following pages.

Industry's shortest lead times/Flexible manufacturing. Baldor has the industry's shortest lead times on custom motors – just ten working days. Our unique Lean Flex FLOW™ manufacturing process lets us produce any order in any quantity, quickly and efficiently.

Baldor products are available at more locations than any other brand. Our 36 district offices across North America and hundreds of ABB offices around the world offer immediate availability of Baldor products to thousands of customers.

Table of Contents

The Best Value in Washdown Duty Motors and Drives

Long before we invested in the people, equipment and material required to produce Baldor•Reliance Washdown Duty motors and drives, we invested our time and attention. We listened to equipment designers, operators and plant maintenance engineers. We learned about their toughest processing applications in poultry, meat, dairy, snack foods and pharmaceuticals. And we took notes when they shared their wish lists of product capabilities and characteristics.

That was over 25 years ago, and we're still listening to customer input.

Today's input: better performance and reliability. These are the inspirations behind Baldor's new and improved Washdown Duty motors. We accomplished this by adding features like an improved paint system, Baldor's Inverter Spike Resistant insulation system, Class F insulation with Class B (or lower) temperature rise, Mobil Polyrex® EM grease, customer-friendly drain plugs, and shaft seals.

Features, choice and availability make Baldor Washdown Duty motors and drives the best value.

- Baldor's Washdown Duty, Paint-Free Washdown and Stainless Washdown are suited for applications requiring high-pressure cleaning with caustic solution. These choices allow you to select the right motor for the amount of protection required for the specific application.
- The widest variety of Washdown Duty motors available from stock. Motors may be selected with the required voltage, horsepower, speed and mounting for the application. Plus, Baldor offers your choice of permanent magnet DC and Servo motors with Washdown Duty construction.

Baldor Washdown Duty Motors provide easy clean up for the food & beverage processing industry.

- Our Super-E® premium efficiency designs meet or exceed NEMA Premium® efficiency levels, provide energy savings, lower temperature rise and increased motor life.
- The autophoretic primer and epoxy paint system on our Washdown Duty motors passes 500 hours in a salt spray booth per ASTM B117.
- Totally Enclosed Non-Ventilated (TENV) Inverter Drive® and Vector Drive® washdown motors are designed and tested for use with adjustable speed controls to ensure maximum performance and adequate cooling over the motor's entire speed range.
- Super-E Washdown Duty motors are Inverter Ready and meet NEMA MG 1 2011, Part 31 requirements for peak voltage when used on inverters.
- If the motor you need is not one we stock, Baldor can build your custom motor in only two weeks! Custom capabilities include mountings, conduit boxes, shaft configurations, special voltages and frequencies.

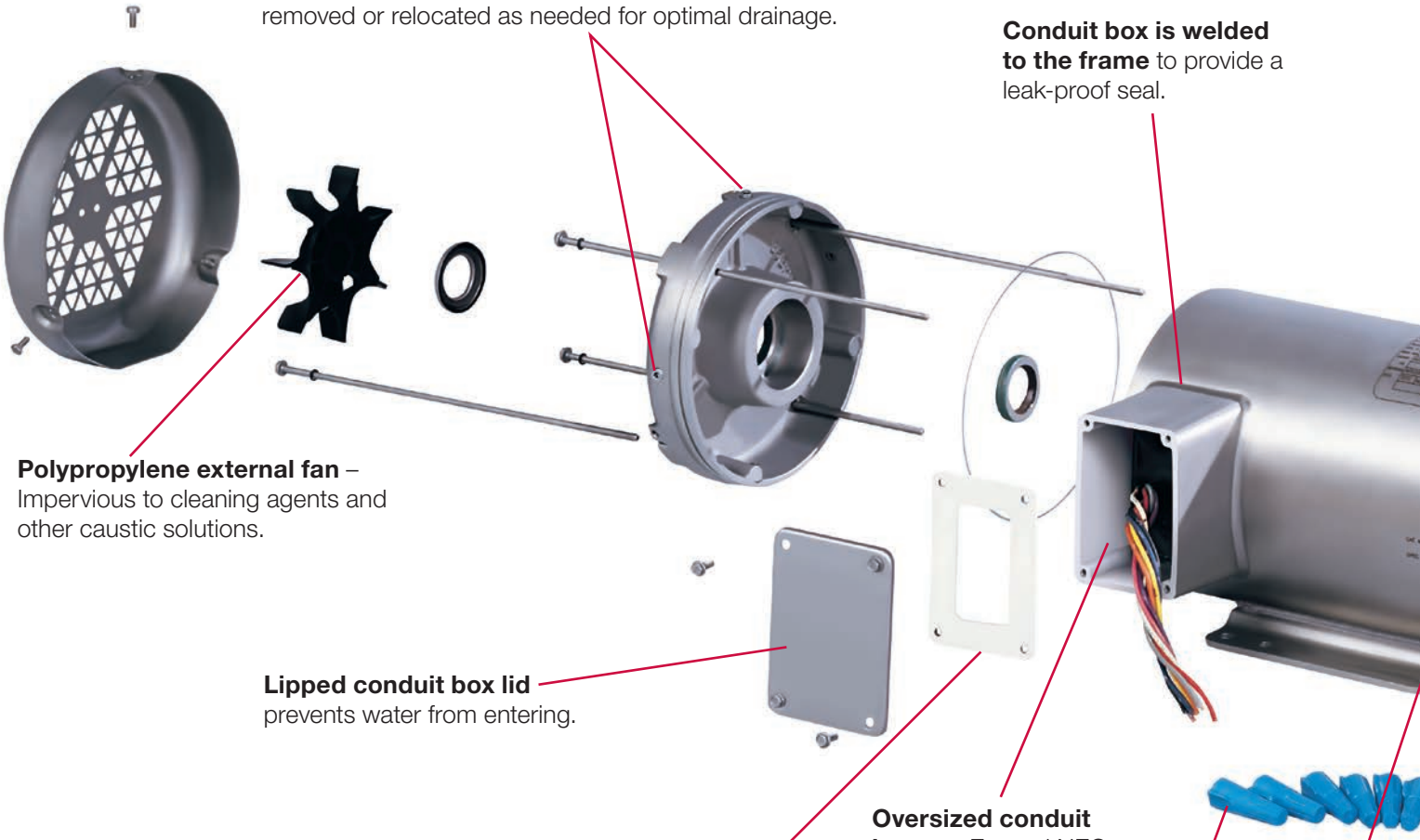
There are many other advantages to specifying Baldor Washdown Duty motors and drives. You'll find them on the following pages, as well as all the specs you need to make the perfect choice for your application.

Baldor SSE Stainless Steel Super-E® Motor

All stainless steel construction including housing, conduit box and cover, base, fan cover and endplates.
Impervious to rust and deterioration caused by high pressure caustic sanitizing.
Provides longer trouble-free life than conventional motors.

Maintenance-friendly drains – Four condensate drain holes on each end of motor allow for thorough drainage in any mounting position. Stainless screw-in plugs can be removed or relocated as needed for optimal drainage.

Conduit box is welded to the frame to provide a leak-proof seal.



Polypropylene external fan – Impervious to cleaning agents and other caustic solutions.

Lipped conduit box lid prevents water from entering.

Neoprene rubber gasket on conduit box – Ensures a tight, waterproof seal.

Oversized conduit boxes – Exceed NEC standards; make connections easier.

Silicone injected wire nuts provided for connection.

Multiple foot mounting holes – Makes motor change-out easy.

Super-E design with NEMA Premium® efficiency for low electricity use. Approved by UL E46145 and CSA LR2262 files. Complies with CE directives as well as ROHS and WEEE directives.

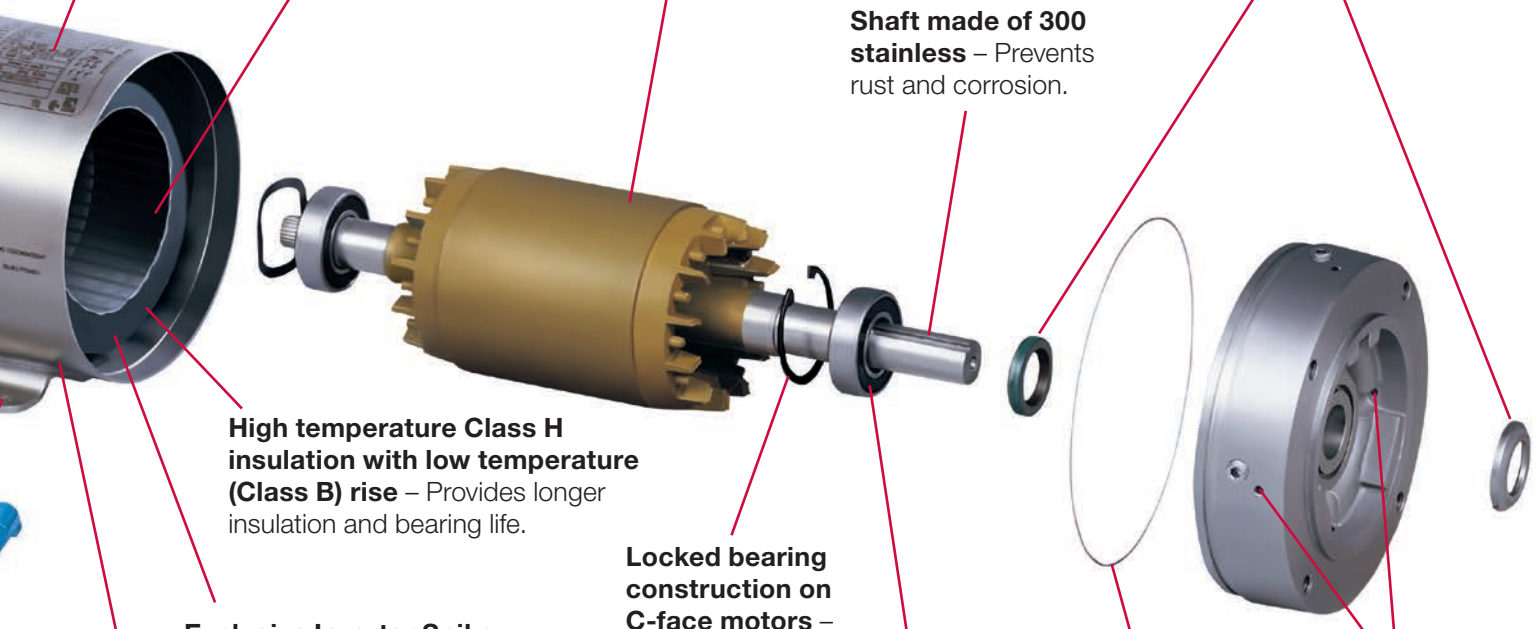
Windings engineered for durability – double-dipped and baked varnish eliminates voids, provides stronger bond and improves moisture resistance. Encapsulation using Baldor's E3 Effusion Epoxy Encapsulation™ process adds another level of internal contaminant and moisture protection. Extends into conduit box to prevent moisture entering the motor winding.

Complete nameplate data laser etched on the motor frame, identification numbers on both sides. Eliminates contamination trapped beneath bolt-on nameplates.

Precision die cast aluminum rotor – Precision balanced and coated with an epoxy primer to resist corrosion.

Premium external and internal bearing protection on each end of motor. Patent pending mechanical seals prevents water from entering motor.

Shaft made of 300 stainless – Prevents rust and corrosion.



High temperature Class H insulation with low temperature (Class B) rise – Provides longer insulation and bearing life.

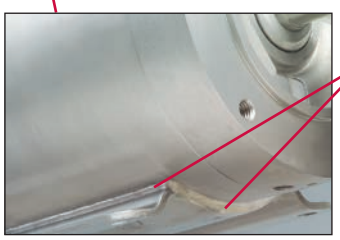
Exclusive Inverter Spike Resistant insulation system – Up to 100 times more resistant to voltage spikes; provides an added thermal safety margin.

Locked bearing construction on C-face motors – Reduces endplay and allows vertical mounting.

Mobil Polyrex® EM grease – Standard double sealed motor bearings better for improved lubrication life. PolyrexEM has greater shear stability and superior resistance to washout, rust and corrosion.

Neoprene o-rings seal frame to endplate joint and prevent water entry.

Four face drain holes — Multiple drain holes allows for drainage of c-face in any position.



Fully welded foot — No crevices around motor feet eliminates potential for contamination buildup.

SSE Super-E® Encapsulated Stainless Motors

NEMA Premium®

Over the years, Baldor has worked with industry leaders in food processing to design washdown duty motors that meet and exceed their application demands.

Our Stainless Super-E encapsulated washdown duty motors are another example of the best getting better. Baldor's SSE Stainless Super-E is designed to perform longer than any other industrial electric motor available today, in the most corrosive and caustic applications subjected to frequent high-pressure sanitizing.

With unmatched quality and superior reliability, Baldor's SSE Stainless Super-E motors have again set the standard that all other washdown duty motors will be judged against.

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated, 230/460 Volts, Three Phase, 1 - 10 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
Foot Mounted, F1 Mounting																			
0.5	0.37	3500	56C	TENV	CSSEWDM3537	0.7	7.4	0.76	80.4	83.7	84.8	59	72	80	6205	6205	E	11.75	CD0005
		1765	56C	TENV	CSSEWDM3538	0.9	7.5	1.49	77.9	81.9	83.6	41	54	64	6205	6205	E1	11.75	CD0005
		1155	56C	TENV	CSSEWDM3539	0.9	4.9	2.14	71.7	76.6	77.3	40	54	63	6205	6205	E	11.75	CD0005
0.75	0.56	3500	56C	TENV	CSSEWDM3541	1	10.4	1.13	85	86.8	86.8	67	79	85	6205	6205	E	11.75	CD0005
		1760	56C	TENV	CSSEWDM3542	1.3	10.7	2.25	79.1	82.7	84	43	55	65	6205	6205	E	12.75	CD0005
		1160	56C	TENV	CSSEWDM3543	1.3	9	3.4	78.6	82	82.8	43	56	64	6205	6205	E	13.63	CD0005
1	0.75	3450	56C	TENV	CSSEWDM3545	1.4	18.3	1.5	76.8	81.5	83.3	61	73	80	6205	6205	E	12.75	CD0005
		1760	56C	TENV	CSSEWDM3546	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6205	6205	E	12.75	CD0005
		1760	143TC	TENV	CSSEWDM3546T	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6205	6205	E	12.80	CD0005
		1155	56C	TEFC	CSSEWDM3556	1.7	10.5	4.53	80.7	83.6	84	45	58	65	6205	6205	E	16.13	CD0005
1.5	1.1	3500	56C	TENV	CSSEWDM3550	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6205	6205	E	13.63	CD0005
		3500	143TC	TENV	CSSEWDM3550T	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6205	6205	E	13.61	CD0005
		1765	56C	TEFC	CSSEWDM3554	2.2	20	4.49	86	88.2	88.6	52	66	74	6205	6205	F	14.75	CD0005
		1765	145TC	TEFC	CSSEWDM3554T	2.2	20	4.49	86	88.2	88.6	52	66	74	6205	6205	F	14.81	CD0005
2	1.5	3500	56C	TEFC	CSSEWDM3555	2.5	31	3	83.7	86	86.6	76	85	90	6205	6205	E	14.75	CD0005
		3500	145TC	TEFC	CSSEWDM3555T	2.5	31	3	83.7	86	86.6	76	85	90	6205	6205	E	14.81	CD0005
		1755	56C	TEFC	CSSEWDM3558	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6205	6205	E	16.13	CD0005
		1755	145TC	TEFC	CSSEWDM3558T	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6205	6205	E	16.19	CD0005
		1175	184TC	TEFC	CSSEWDM3614T	3.5	26	8.95	85.2	87.7	88.5	41	53	61	6206	6206	E1	19.25	CD0005
3	2.2	3470	145TC	TEFC	CSSEWDM3559T	3.7	48.3	4.5	86.3	87.2	86.9	79	87	91	6205	6205	E	16.19	CD0005
		1760	182TC	TEFC	CSSEWDM3611T	4.2	34.1	9.04	88.1	89.6	89.7	56	69	76	6206	6206	F	19.25	CD0005
5	3.7	3500	184TC	TEFC	CSSEWDM3613T	5.6	62.5	7.5	89	90	89.6	83	89	93	6206	6206	E	17.75	CD0005
		1750	184TC	TEFC	CSSEWDM3615T	6.5	48.3	15.2	90.5	90.7	89.8	64	75	81	6206	6206	E	19.25	CD0005
7.5	5.6	3500	213TC	TEFC	CSSEWDM3709T	8.3	87	11.5	90.9	92.1	91.9	79	90	93	6307	6307	E	20.43	CD0005
		1770	213TC	TEFC	CSSEWDM3710T	9.5	73	22.3	91.6	92.2	91.9	65	75	81	6307	6307	E1	21.62	CD0005
10	7.5	3500	215TC	TEFC	CSSEWDM3711T	10.6	115	15	92	92.4	91.8	83	91	94	6307	6307	E	21.62	CD0005
		1770	215TC	TEFC	CSSEWDM3714T	12.5	105.2	29.9	92.5	93.1	92.8	65	76	81	6307	6307	E	23.06	CD0180
Foot Mounted, F2 Mounting																			
1	0.75	1760	143TC	TENV	CSSEWDFM3546T	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6205	6205	E	12.80	CD0005
1.5	1.1	1765	145TC	TEFC	CSSEWDFM3554T	2.2	20	4.49	86	88.2	88.6	52	66	74	6205	6205	F	14.81	CD0005
2	1.5	1755	145TC	TEFC	CSSEWDFM3558T	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6205	6205	E	16.19	CD0005
3	2.2	1760	182TC	TEFC	CSSEWDFM3611T	4.2	34.1	9.04	88.1	89.6	89.7	56	69	76	6206	6206	F	19.25	CD0005
5	3.7	1750	184TC	TEFC	CSSEWDFM3615T	6.5	48.3	15.2	90.5	90.7	89.8	64	75	81	6206	6206	E	19.25	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz.
See page 44 for Connection Diagrams. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

SSE Super-E® Encapsulated Stainless Motors continued…

NEMA Premium

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1/2 - 2 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
C-Face Footless																			
0.5	0.37	3500	56C	TENV	VSSEWDM3537	0.7	7.4	0.76	80.4	83.7	84.8	59	72	80	6205	6205	E	11.75	CD0005
		1765	56C	TEFC	VSSEFWDM3538	0.9	7.5	1.49	77.6	81.5	83.8	41	53	63	6205	6205	E	12.88	CD0005
		1765	56C	TENV	VSSEWDM3538	0.9	7.5	1.49	77.9	81.9	83.6	41	54	64	6205	6205	E1	11.75	CD0005
0.75	0.56	3500	56C	TENV	VSSEWDM3541	1	10.4	1.13	85	86.8	86.8	67	79	85	6205	6205	E	11.75	CD0005
		1760	56C	TEFC	VSSEFWDM3542	1.3	10.7	2.25	78.6	82.5	84.1	43	55	65	6205	6205	F	13.88	CD0005
		1760	56C	TENV	VSSEWDM3542	1.3	10.7	2.25	79.1	82.7	84	43	55	65	6205	6205	E	12.75	CD0005
		1160	56C	TENV	VSSEWDM3543	1.3	9	3.4	78.6	82	82.8	43	56	64	6205	6205	E	13.63	CD0005
1	0.75	3450	56C	TENV	VSSEWDM3545	1.4	18.3	1.5	76.8	81.5	83.3	61	73	80	6205	6205	E	12.75	CD0005
		1760	56C	TEFC	VSSEFWDM3546	1.5	15	2.98	84	86.7	87.6	50	63	72	6205	6205	E1	13.88	CD0005
		1760	143TC	TEFC	VSSEFWDM3546T	1.5	15	2.98	84	86.7	87.6	50	63	72	6205	6205	E1	13.94	CD0005
		1760	56C	TENV	VSSEWDM3546	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6205	6205	E	12.75	CD0005
		1760	143TC	TENV	VSSEWDM3546T	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6205	6205	E	12.80	CD0005
		1155	56C	TEFC	VSSEWDM3556	1.7	10.5	4.53	80.7	83.6	84	45	58	65	6205	6205	E	16.13	CD0005
1.5	1.1	3500	56C	TENV	VSSEWDM3550	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6205	6205	E	13.63	CD0005
		3500	143TC	TENV	VSSEWDM3550T	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6205	6205	E	13.61	CD0005
		1765	56C	TEFC	VSSEWDM3554	2.2	20	4.49	86	88.2	88.6	52	66	74	6205	6205	E1	14.75	CD0005
		1765	145TC	TEFC	VSSEWDM3554T	2.2	20	4.49	86	88.2	88.6	52	66	74	6205	6205	E1	14.81	CD0005
2	1.5	3500	145TC	TEFC	VSSEWDM3555T	2.5	31	3	83.7	86	86.6	76	85	90	6205	6205	E	14.81	CD0005
		1755	56C	TEFC	VSSEWDM3558	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6205	6205	E	16.13	CD0005
		1755	145TC	TEFC	VSSEWDM3558T	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6205	6205	E	16.19	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz.
See page 44 for Connection Diagram. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

IEC SSE Encapsulated 50 Hz Stainless Motors

IE3

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/400 Volts, Three Phase, .37 - 1.5 Kw

kW	Hp	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Voltage	Length mm (in)	Bearing Each End	Conn. Diag.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load				
B14 C-Face, Foot Mounted																		
1.1	1.5	1460	D90C	TEFC	CSSEWDM90114C-57	2.4	21	5.32	86.6	87.6	87.7	54	68	76	230/400	365 (14.36)	6205	CD0022
1.5	2	1450	D90C	TEFC	CSSEWDM90154C-57	3.1	25.9	7.21	87.7	88.1	87.7	60	73	79	230/400	400 (15.74)	6205	CD0022
B14 C-Face, Footless																		
1.1	1.5	1460	D90C	TEFC	VSSEWDM90114C-57	2.4	21	5.32	86.6	87.6	87.7	54	68	76	230/400	365 (14.36)	6205	CD0022
1.5	2	1450	D90C	TEFC	VSSEWDM90154C-57	3.1	25.9	7.21	87.7	88.1	87.7	60	73	79	230/400	400 (15.74)	6205	CD0022
B5 Flange, Footless																		
0.37	0.5	1440	D80D	TENV	VSSEWDM80044D-57	0.8	5.6	1.8	78	79.6	79.3	63	75	82	230/400	315 (12.40)	6205	CD0022
0.55	0.75	1470	D80D	TENV	VSSEWDM80064D-57	1.4	15	2.64	81.7	85.3	86.5	43	56	66	230/400	340 (13.40)	6205	CD0022
0.75	1	1460	D80D	TENV	VSSEWDM80084D-57	1.7	15.3	3.62	84.5	86.8	87	52	66	75	230/400	340 (13.40)	6205	CD0022
1.1	1.5	1460	D90D	TEFC	VSSEWDM90114D-57	2.4	21	5.32	86.6	87.6	87.7	54	68	76	230/400	402 (15.82)	6205	CD0022
1.5	2	1450	D90D	TEFC	VSSEWDM90154D-57	3.1	25.9	7.21	87.7	88.1	87.7	60	73	79	230/400	437 (17.20)	6205	CD0022

NOTE: See page 44 for Connection Diagram. Go to baldor.com for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Stainless Steel Washdown Duty Motors

In applications where additional protection is required against highly corrosive environments, Baldor's Stainless Steel Washdown Duty motors are the answer. Typical applications include outdoor installations, or applications where particularly corrosive agents are being processed or used for washdowns, as in pharmaceuticals. Features include 300 Series stainless steel on all external surfaces, and a labyrinth seal on both ends of the shaft extension to protect motor bearings by rotating and expelling contaminants.

TEFC - Totally Enclosed Fan Cooled,
TENV - Totally Enclosed Non-Ventilated - Three Phase, 1/2 - 20 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
230/460 Volts, C-Face, Foot Mounted																			
0.5	0.37	3450	56C	TENV	CSSWDM3537	0.9	6	0.75	59.6	67	70.6	62	72	78	6205	6203	E	11.09	CD0005
		1755	56C	TENV	CSSWDM3538	0.9	7.7	1.47	72.5	77.8	79.9	41	54	64	6205	6203	E	11.09	CD0005
0.75	0.56	3450	56C	TENV	CSSWDM3541	1.1	11.7	1.1	74.4	78.7	80.4	63	73	80	6205	6203	E1	11.09	CD0005
		1740	56C	TENV	CSSWDM3542	1.1	9.8	2.27	81.9	83.8	83.5	56	70	78	6205	6203	E	11.09	CD0005
1	0.75	3450	56C	TENV	CSSWDM3545	1.3	12.4	1.5	80.5	83.5	83.7	69	81	86	6205	6203	E1	11.09	CD0005
		1745	56C	TENV	CSSWDM3546	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	11.09	CD0005
		1760	143TC	TEFC	CESSWDM3546T	1.5	15	2.98	83.5	86.5	87.3	47	61	70	6205	6203	E	13.42	CD0005
1.5	1.1	3500	56C	TENV	CESSWDM3550	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6205	6203	E	12.97	CD0005
		3500	143TC	TENV	CESSWDM3550T	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6205	6203	E	13.23	CD0005
		1755	56C	TEFC	CSSWDM3554	2.4	19	4.43	79.4	83	84	48	62	70	6205	6203	E	13.34	CD0005
		1760	145TC	TEFC	CESSWDM3554T	2.1	18.6	4.46	85.8	87.7	87.8	53	66	74	6205	6203	E	13.42	CD0005
2	1.5	3500	145TC	TEFC	CESSWDM3555T	2.5	31	3	83.8	86	86.6	71	82	86	6205	6203	E	14.30	CD0005
		1750	56C	TEFC	CSSWDM3558	2.9	23.7	6.01	85.1	86.9	86.6	53	67	75	6205	6203	E	13.34	CD0005
		1755	145TC	TEFC	CESSWDM3558T	2.8	25.9	5.91	86.8	88.3	88.5	55	67	76	6205	6203	E	15.67	CD0005
3	2.2	3470	145TC	TEFC	CESSWDM3559T	3.7	48.3	4.5	86.4	87.3	86.9	79	87	90	6205	6203	E	15.67	CD0005
		3500	182TC	TEFC	CESSWDM3610T	3.7	42	4.55	87.9	89.3	89.2	72	83	87	6206	6205	E	16.82	CD0005
		1760	182TC	TEFC	CESSWDM3611T	4.2	34.1	9.04	88.3	89.7	89.7	56	69	76	6206	6205	E1	18.32	CD0005
5	3.7	3480	184TC	TEFC	CESSWDM3613T	5.7	69.6	7.55	88.9	90.4	90.4	76	87	91	6206	6205	E1	18.32	CD0005
		1750	184TC	TEFC	CESSWDM3615T	6.5	48.3	15	90.3	90.6	89.8	64	75	81	6206	6205	F	18.32	CD0005
7.5	5.6	3500	213TC	TEFC	CESSWDM3709T	8.3	87	11.5	90.9	92.2	91.9	86	90	95	6307	6206	E1	19.03	CD0005
		1770	213TC	TEFC	CESSWDM3710T	9.5	73	22.3	91.6	92.2	91.9	65	75	81	6307	6206	F	20.16	CD0005
10	7.5	3500	215TC	TEFC	CESSWDM3711T	10.6	115	15	92	92.4	91.8	83	91	94	6307	6206	E	20.16	CD0005
		1770	215TC	TEFC	CESSWDM3714T	12.5	105	29.9	92.6	93.3	93	65	76	81	6307	6206	E1	21.66	CD0005
15	11	3520	254TC	TEFC	CESSWDM23994T	16.5	145	22.1	89.6	91.1	91.3	84	90	92	6309	6208	E	24.67	CD0005
		1765	254TC	TEFC	CESSWDM23933T	17.7	126	44.6	91.3	92.5	92.7	71	81	86	6309	6208	E1	24.67	CD0005
20	15	3525	256TC	TEFC	CESSWDM41906T	21.5	152	29.6	93.5	93.3	92.5	88	92	93	6309	6208	F	24.67	CD0005
		1765	256TC	TEFC	CESSWDM23934T	23.4	162	59.3	92.9	93.4	93	75	83	86	6309	6208	F	24.67	CD0180
230/460 Volts, C-Face, Footless																			
0.5	0.37	3450	56C	TENV	VSSWDM3537	0.9	6	0.75	59.6	67	70.6	62	72	78	6205	6203	E	11.09	CD0005
		1755	56C	TEFC	VSSFWDM3538	0.9	7.7	1.47	72.2	77.8	79.4	41	54	64	6205	6203	E	12.34	CD0005
		1765	56C	TENV	VSSWDM3538	0.9	7.5	1.49	77.6	81.5	83.8	41	53	63	6205	6203	E	11.09	CD0005
0.75	0.56	3450	56C	TENV	VSSWDM3541	1.1	11.7	1.1	74.4	78.7	80.4	63	73	80	6205	6203	E1	11.09	CD0005
		1740	56C	TEFC	VSSFWDM3542	1.1	9.8	2.27	81.6	83.6	83.4	56	70	78	6205	6203	E	12.34	CD0005
		1740	56C	TENV	VSSWDM3542	1.1	9.8	2.27	81.6	83.6	83.4	56	70	78	6205	6203	E	11.09	CD0005
1	0.75	3450	56C	TENV	VSSWDM3545	1.3	12.4	1.5	80.5	83.5	83.7	69	81	86	6205	6203	E1	11.09	CD0005
		1745	56C	TEFC	VSSFWDM3546	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.34	CD0005
		1745	56C	TENV	VSSWDM3546	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	11.09	CD0005
1.5	1.1	3500	56C	TENV	VSSWDM3550	2	23.4	2.2	80.9	84.2	85.2	67	78	84	6205	6203	E1	12.09	CD0005
		1755	145TC	TEFC	VSSWDM3554T	2.4	19	4.43	79.4	83	84	48	62	70	6205	6203	E	13.42	CD0005
2	1.5	3450	145TC	TEFC	VSSWDM3555T	2.6	30	3	83.8	86.2	86.5	70	80	85	6205	6203	E	14.30	CD0005
		1750	145TC	TEFC	VSSWDM3558T	2.9	23.7	6.01	85.1	86.9	86.6	53	67	75	6205	6203	E	13.42	CD0005
3	2.2	3450	145TC	TEFC	VSSWDM3559T	3.7	20	4.5	82.9	85.3	85.5	78	85	88	6205	6203	E1	14.30	CD0005
		1760	182TC	TEFC	VSSWDM3611T	4.1	31.2	9	86.9	88.2	88	51	63	71	6206	6205	E	16.82	CD0005
5	3.7	3450	184TC	TEFC	VSSWDM3613T	5.7	64	7.5	86.6	88.2	88.2	83	91	93	6206	6205	E	16.82	CD0005
		1750	184TC	TEFC	VSSWDM3615T	6.5	48.9	15	89.5	90.2	89.7	65	77	82	6206	6205	E	18.32	CD0005
575 Volts, C-Face, Foot Mounted																			
0.5	0.37	1755	56C	TENV	CSSWDM3538-5	0.7	6.1	1.47	73.6	78.8	80.2	40	54	64	6205	6203	H	11.09	CD0006
0.75	0.56	1740	56C	TENV	CSSWDM3542-5	0.9	7.8	2.27	81.3	83.6	83.4	56	70	78	6205	6203	H	11.09	CD0006
1	0.75	1745	56C	TENV	CSSWDM3546-5	1.2	10.7	3.02	83.6	85.9	85.6	53	67	76	6205	6203	H	11.09	CD0006
		1765	143TC	TEFC	CESSWDM3546T-5	1.3	12.2	3	83.4	86.4	87.9	47	60	70	6205	6203	H	13.42	CD0006
1.5	1.1	1760	145TC	TEFC	CESSWDM3554T-5	1.7	14.9	4.46	85.9	87.6	87.7	52	66	74	6205	6203	H	13.42	CD0006
2	1.5	1755	145TC	TEFC	CESSWDM3558T-5	2.2	20.4	5.91	87	88.1	88.5	56	68	76	6205	6203	H	15.67	CD0006

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz. H=575 V, 60 Hz.
See page 44 for Connection Diagrams. See pages 30 and 35 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Paint Free Washdown Duty Motors

Baldor "Paint-Free" Washdown Duty motors are designed for applications where use of caustic cleaning solutions and regular high-pressure wash downs may compromise the surface of a painted motor. Features include special processed cast endplates; 300 Series stainless steel motor frame, base, shaft and hardware; and a labyrinth seal on the drive end shaft extension to protect motor bearings by rotating and expelling contaminants. CES and VES motors are Super-E® with NEMA Premium® efficiency and 3-year warranty.

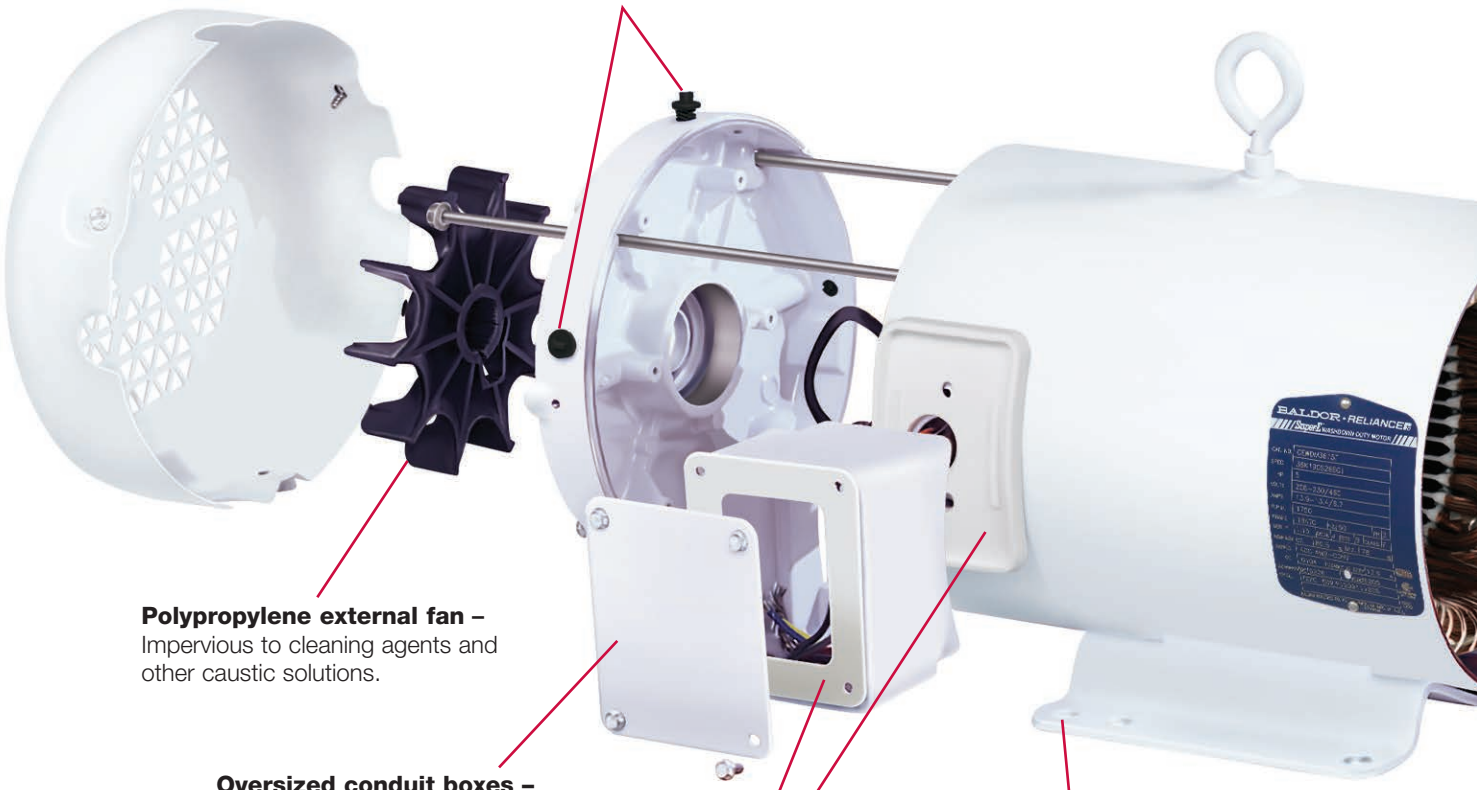
TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1/2 - 10 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
C-Face Foot Mounted																			
0.5	0.37	3450	56C	TENV	CSWDM3537	0.9	10.8	0.75	62.1	68.9	71.5	69	78	84	6205	6203	E	11.06	CD0005
		1740	56C	TENV	CSWDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E1	11.06	CD0005
		1165	56C	TENV	CSWDM3539	1	5.7	2.19	72.5	77.4	78.8	39	51	60	6205	6203	E	12.06	CD0005
0.75	0.56	3450	56C	TENV	CSWDM3541	1.1	11.7	1.1	74.5	78.8	80.4	61	72	78	6205	6203	E	11.06	CD0005
		1750	56C	TENV	CSWDM3542	1.4	10.5	2.26	71.7	76.6	78.6	44	56	66	6205	6203	E1	11.06	CD0005
		1160	56C	TENV	CSWDM3543	1.4	9.2	3.39	77.4	81.1	82.1	41	53	62	6205	6203	E	12.94	CD0005
1	0.75	3450	56C	TENV	CSWDM3545	1.3	12.4	1.5	80.5	83.5	83.7	69	81	86	6205	6203	E	11.06	CD0005
		1745	56C	TENV	CESWDM3546	1.5	13.5	3	83.4	85.4	85.5	53	67	76	6205	6203	E	12.06	CD0005
		1740	56C	TENV	CSWDM3546	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.06	CD0005
		1740	143TC	TENV	CSWDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	12.12	CD0005
		1140	56C	TEFC	CSWDM3556	1.7	9.8	4.6	75.3	77.9	77.6	48	61	71	6205	6203	E	12.24	CD0005
1.5	1.1	3450	56C	TENV	CSWDM3550	2.1	16	2.3	79.8	82.9	83.6	78	87	90	6205	6203	E	12.94	CD0005
		1755	56C	TENV	CSWDM3554	2.3	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.06	CD0005
		1755	145TC	TENV	CESWDM3554T	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	13.00	CD0005
		1755	145TC	TENV	CSWDM3554T	2.3	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.12	CD0005
		1140	56C	TEFC	CSWDM3557	2.5	15.4	6.91	79.3	81.3	80.6	49	63	72	6205	6203	E	14.12	CD0005
2	1.5	3450	145TC	TEFC	CESWDM3555T	2.5	30	3	83.8	86.2	86.5	70	80	85	6205	6203	E	14.16	CD0005
		1750	56C	TEFC	CSWDM3558	2.9	23.7	6.01	85.1	86.9	86.6	53	67	75	6205	6203	E	13.24	CD0005
		1755	145TC	TEFC	CESWDM3558T	2.8	25.9	5.91	86.8	88.3	88.5	55	67	76	6205	6203	E	15.54	CD0005
3	2.2	3475	145TC	TEFC	CESWDM3559T	3.6	37.9	4.5	85.6	87	86.9	81	89	91	6205	6203	E	15.54	CD0005
		1760	182TC	TEFC	CESWDM3611T	4	33	9	88.4	89.7	89.6	61	72	79	6206	6205	E	16.56	CD0005
5	3.7	3480	184TC	TEFC	CESWDM3613T	5.7	69.6	7.55	88.9	90.4	90.4	76	87	91	6206	6205	E	18.06	CD0005
		1750	184TC	TEFC	CESWDM3615T	6.7	49.1	14.9	89.7	90.3	89.8	60	72	78	6206	6205	E	18.06	CD0005
7.5	5.6	3500	213TC	TEFC	CESWDM3709T	8.3	87	11.5	90.9	92.2	91.9	86	90	95	6307	6206	E	18.68	CD0005
		1770	213TC	TEFC	CESWDM3710T	9.5	73	22.3	91.6	92.2	91.9	65	75	81	6307	6206	F	19.81	CD0005
10	7.5	3500	215TC	TEFC	CESWDM3711T	10.6	115	15	92	92.4	91.8	83	91	94	6307	6206	E	19.81	CD0005
		1770	215TC	TEFC	CESWDM3714T	12	100	26.6	92.3	92.3	91.7	63	77	84	6307	6206	F	21.31	CD0005
C-Face Footless																			
0.5	0.37	1740	56C	TENV	VSWDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E1	11.06	CD0005
0.75	0.56	1750	56C	TENV	VSWDM3542	1.4	10.5	2.26	71.7	76.6	78.6	44	56	66	6205	6203	E1	11.06	CD0005
1	0.75	1745	56C	TENV	VESWDM3546	1.5	13.5	3	83.4	85.4	85.5	53	67	76	6205	6203	E	12.06	CD0005
		1740	56C	TENV	VSWDM3546	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.06	CD0005
		1740	143TC	TENV	VSWDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.12	CD0005
1.5	1.1	1755	56C	TENV	VESWDM3554	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	12.95	CD0005
		1755	56C	TENV	VSWDM3554	2.3	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.06	CD0005
		1755	145TC	TENV	VESWDM3554T	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	13.00	CD0005
		1755	145TC	TENV	VSWDM3554T	2.3	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.12	CD0005
2	1.5	1755	145TC	TEFC	VESWDM3558T	2.8	25.9	5.91	86.8	88.3	88.5	55	67	76	6205	6203	E	15.56	CD0005
		1750	145TC	TEFC	VSWDM3558T	3.1	47.6	5.96	81	83.6	84.1	50	63	72	6205	6203	E	13.31	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz.
See page 44 for Connection Diagrams. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Baldor Washdown Duty Motors: Performance and reliability, inside and out

Maintenance-friendly drain design –
Four condensate drain holes in each endplate allow thorough drainage, regardless of motor's mounting position. Distinctive black color of drain plugs makes them easy to recognize; shape makes them easy to remove. Notched fan cover allows easy access to condensate drain plugs without removing fan cover. Paint-free, stainless and SSE motors use screw-in stainless plugs.



Polypropylene external fan –
Impervious to cleaning agents and other caustic solutions.

Oversized conduit boxes –
Exceed NEC standards; make connections easier.

Neoprene rubber gaskets on conduit box – Ensure a tight, waterproof seal.

Multiple foot mounting holes –
Makes motor change-out easy.

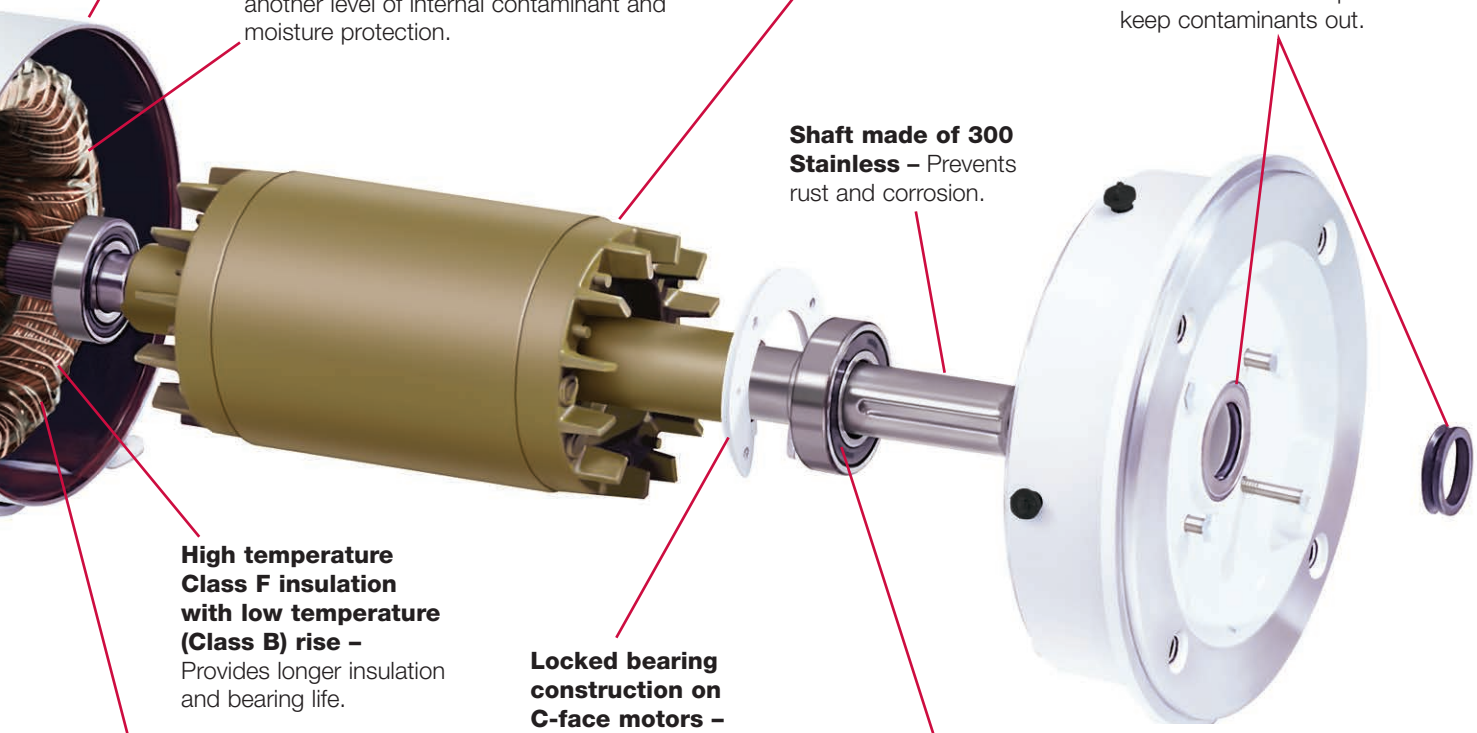
(1): A Labyrinth seal on shaft extensions is standard on All Stainless, Paint-Free and Super White Washdown Duty motors. Non-contacting seal protects the motor bearings by rotating and expelling contaminants.
(2): Currently available on custom Washdown, Paint-Free and Stainless motors

Improved exterior paint – 5 times better!
Autophoretic® autodeposition surface preparation method makes finish coat five times more resistant to corrosion and chipping than previous methods. Withstands ASTM B117 salt spray test for over 500 hours. FDA approved epoxy powder coating electrostatically applied (inside and outside) on end-plate and conduit box for thorough corrosion prevention and long lasting finish.

Precision die cast aluminum rotor – Precision balanced and coated with an epoxy primer to resist corrosion.

Windings engineered for durability –
Double dipped and baked varnish eliminates voids, provides stronger bond and improves moisture resistance. Encapsulation (2) adds another level of internal contaminant and moisture protection.

Forsheda® slinger and contact lip seal on output shaft extension (1) –
An extra measure of protection to keep contaminants out.



Shaft made of 300 Stainless – Prevents rust and corrosion.

High temperature Class F insulation with low temperature (Class B) rise –
Provides longer insulation and bearing life.

Locked bearing construction on C-face motors –
Reduces endplay and allows vertical mounting.

Mobil Polyrex® EM grease –
Standard double sealed motor bearings better for improved lubrication life. PolyrexEM has greater shear stability and superior resistance to washout, rust and corrosion.

Exclusive inverter spike resistant insulation system – Up to 100 times more resistant to voltage spikes; provides an added thermal safety margin.

Washdown Duty Motors

For multi-shift food and pharmaceutical processing applications, Baldor Washdown Duty motors deliver both reliability and energy cost savings. The standard in the food and pharmaceutical processing industries for more than 25 years, Baldor Washdown Duty motors continually raise the bar with more features to improved reliability. The improved exterior paint process makes the finish coat five times more resistant to corrosion and chipping. Mobil Polyrex® EM grease provides improved lubrication life, provides greater shear stability and superior resistance to washout, rust and corrosion. Distinctive black drain plugs make them easy to recognize and are easily removable.

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1/2 - 20 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
Foot Mounted																			
0.50	0.37	1740	56C	TENV	WDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E1	11.06	CD0005
0.75	0.56	1750	56C	TENV	WDM3542	1.4	10.5	2.26	71.7	76.6	78.6	44	56	66	6205	6203	E1	11.06	CD0005
1	0.75	1745	143T	TENV	EWDM3546T	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.12	CD0005
		1740	143T	TENV	WDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.12	CD0005
1.5	1.1	1755	145T	TENV	EWDM3554T	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	13.00	CD0005
		1755	145T	TENV	WDM3554T	2.6	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.12	CD0005
2	1.5	1755	145T	TEFC	EWDM3558T	2.9	24.3	5.95	84.2	86.4	87.3	51	64	73	6205	6203	E	14.17	CD0005
3	2.2	1760	182T	TEFC	EWDM3611T	4.2	32	8.88	87.8	89.5	89.6	54	68	75	6206	6205	E	16.54	CD0005
5	3.7	1750	184T	TEFC	EWDM3615T	6.7	49.1	14.9	89.7	90.3	89.8	60	72	78	6206	6205	E	18.04	CD0005
7.5	5.6	1770	213T	TEFC	EWDM3710T	9.4	70.1	22.4	92.2	92.7	92.2	63	75	81	6307	6206	E1	19.04	CD0005
10	7.5	1770	215T	TEFC	EWDM3714T	12	103	29.5	92.1	92.4	91.8	66	79	85	6307	6206	F	20.54	CD0005
C-Face Foot Mounted																			
0.5	0.37	3450	56C	TENV	CWDM3537	0.9	6	0.75	59.6	66.9	70.6	62	72	79	6205	6203	E	11.07	CD0005
		1740	56C	TENV	CWDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E1	11.06	CD0005
		1165	56C	TENV	CWDM3539	1	5.7	2.19	72.5	77.4	78.8	39	51	60	6205	6203	E	12.06	CD0005
0.75	0.56	3450	56C	TENV	CWDM3541	1.1	11.7	1.1	74.4	78.7	80.4	63	73	80	6205	6203	E1	11.07	CD0005
		1750	56C	TENV	CWDM3542	1.4	10.5	2.26	71.7	76.6	78.6	44	56	66	6205	6203	E1	11.06	CD0005
		1160	56C	TENV	CWDM3543	1.4	8.6	3.35	74.3	78.8	80.2	43	54	62	6205	6203	E	12.94	CD0005
1	0.75	3450	56C	TEFC	CEWDM3545	1.4	9	1.5	67.8	73.5	75.1	74	81	85	6205	6203	F	12.24	CD0005
		3450	56C	TENV	CWDM3545	1.3	12.4	1.5	80.5	83.5	83.7	69	81	86	6205	6203	E1	11.07	CD0005
		1745	56C	TENV	CEWDM3546	1.5	13.5	3	83.4	85.4	85.5	53	67	76	6205	6203	E	12.06	CD0005
		1740	56C	TENV	CWDM3546	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.06	CD0005
		1745	143TC	TENV	CEWDM3546T	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.12	CD0005
		1740	143TC	TENV	CWDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	12.12	CD0005
		1155	56C	TEFC	CEWDM3556	1.8	10.8	4.51	79.4	82.3	82.7	43	55	64	6205	6203	E	13.24	CD0005
		1155	56C	TEFC	CWDM3556	1.9	10.3	4.52	73.9	77.8	78.7	41	54	63	6205	6203	E	12.24	CD0005
1.5	1.1	3500	56C	TENV	CEWDM3550	2	23.5	2.3	82.5	85.2	86.1	71	81	87	6205	6203	E	12.06	CD0005
		3450	56C	TENV	CWDM3550	2.1	16	2.3	79.8	82.9	83.6	78	87	90	6205	6203	E	12.94	CD0005
		1735	56C	TEFC	CWDM3554	2.3	17.5	4.5	77.3	80.9	81.6	51	65	74	6205	6203	E	12.24	CD0005
		1755	145TC	TENV	CEWDM3554T	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	13.00	CD0005
		1755	145TC	TENV	CWDM3554T	2.6	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.12	CD0005
		1140	56C	TEFC	CWDM3557	2.5	15.4	6.91	79.3	81.3	80.6	49	63	72	6205	6203	E	14.12	CD0005
2	1.5	3490	56HCY	TEFC	CEWDM3555	2.5	25.9	2.98	83.5	85.9	86.4	75	84	88	6205	6203	E	13.24	CD0005
		3450	56HCY	TEFC	CWDM3555	2.8	51.8	3.01	79.1	83.1	84.7	62	74	81	6203	6203	E	13.59	CD0005
		3490	145TC	TEFC	CEWDM3555T	2.5	25.9	2.98	83.5	85.9	86.4	75	84	88	6205	6203	E	13.28	CD0005
		1735	56C	TEFC	CWDM3558	3	24.8	6.05	79.2	82.2	82.7	53	67	76	6205	6203	E	13.24	CD0005
		1755	145TC	TEFC	CEWDM3558T	2.9	24.3	5.95	84.2	86.4	87.3	51	64	73	6205	6203	E	14.16	CD0005
		1750	145TC	TENV	CEWDNM3558T	2.7	25	5.95	88.5	89.5	89.1	60	72	80	6205	6203	E	14.37	CD0005
		1175	184TC	TEFC	CEWDM3614T	3.5	27.5	8.91	85.3	88	88.9	40	52	60	6206	6205	E	18.04	CD0005
3	2.2	3450	145TC	TEFC	CEWDM3559T	3.5	39.2	4.59	87.7	88.3	87.6	81	88	92	6205	6203	F	15.55	CD0005
		3450	182TC	TEFC	CEWDM3610T	3.6	33.1	4.61	87.9	88.2	87.2	81	88	92	6206	6203	E	15.18	CD0005
		1760	182TC	TEFC	CEWDM3611T	4.2	32	8.88	87.8	89.5	89.6	54	68	75	6206	6205	E	16.54	CD0005
		1160	213TC	TEFC	CEWDM3704T	4.6	34.4	13.4	87.7	89.4	89.5	49	61	68	6307	6206	E	19.78	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz.
See page 44 for Connection Diagrams. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

TEFC - Totally Enclosed Fan Cooled,
TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1/2 - 20 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
C-Face Foot Mounted																			
5	3.7	3450	184TC	TEFC	CEWDM3613T	5.9	57.2	7.64	88.4	89.1	88.3	81	88	91	6206	6205	E	16.54	CD0005
		1750	184TC	TEFC	CEWDM3615T	6.7	49.1	14.9	89.7	90.3	89.8	60	72	78	6206	6205	E	18.04	CD0005
		1160	215TC	TEFC	CEWDM3708T	7.3	51.6	22.7	89.8	90.4	89.7	55	66	73	6307	6206	E	20.53	CD0005
7.5	5.6	3450	184TC	TEFC	CEWDM3616T	8.4	91	11.4	90.6	90.7	89.8	85	90	93	6206	6205	E	18.04	CD0005
		3520	213TC	TEFC	CEWDM3709T	9	68.4	11.2	88.8	90.5	90.6	69	79	84	6307	6206	E	18.64	CD0005
		1770	213TC	TEFC	CEWDM3710T	9.4	70.1	22.4	92.2	92.7	92.2	63	75	81	6307	6206	E1	19.78	CD0005
		1180	254TC	TEFC	CEWDM22976T	11	75.8	33.2	90.3	91.6	91.3	51	63	70	6309	6208	E	23.57	CD0005
10	7.5	3490	215TC	TEFC	CEWDM3711T	11.8	78.5	15	91	91.3	90.8	74	84	87	6307	6206	E	18.64	CD0005
		1770	215TC	TEFC	CEWDM3714T	12	103	29.5	92.1	92.4	91.8	66	79	85	6307	6206	F	21.27	CD0005
		1180	256TC	TEFC	CEWDM23932T	15.1	107	44.3	89.4	91.2	91.4	49	61	68	6309	6208	E	23.57	CD0180
15	11	3500	215TC	TEFC	CEWDM3713T	17	150	22.1	91.5	92.2	91.8	77	85	88	6307	6206	E	21.26	CD0180
		3500	254TC	TEFC	CEWDM23994T	16.6	161	22.5	91.5	91.8	91.2	87	92	93	6309	6206	E1	21.94	CD0005
		1765	254TC	TEFC	CEWDM23933T	18	125	45	92.1	93	92.8	71	81	86	6309	6208	F	23.57	CD0005
20	15	3520	256TC	TEFC	CEWDM41906T	22.5	165.7	29.8	92.5	93	92.5	79	86	90	6309	6208	F	23.57	CD0005
		1765	256TC	TEFC	CEWDM23934T	24	171	60	92.9	93.5	93.2	67	79	84	6309	6208	E	23.57	CD0005
C-Face Footless																			
0.5	0.37	1740	56C	TENV	VEWDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E	11.06	CD0005
		1740	56C	TEFC	VFWDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E1	12.24	CD0005
		1740	56C	TENV	VWDM3538	0.8	6.3	1.49	73.1	78.5	80	45	59	69	6205	6203	E1	11.06	CD0005
0.75	0.56	1750	56C	TENV	VEWDM3542	1.2	9.7	2.24	76.1	80	81.2	51	65	74	6205	6203	F	11.06	CD0005
		1750	56C	TEFC	VFWDM3542	1.4	10.5	2.26	71.7	86.6	78.6	44	56	66	6205	6203	E1	12.24	CD0005
		1750	56C	TENV	VWDM3542	1.2	9.7	2.24	76.1	80	81.2	51	65	74	6205	6203	F	11.06	CD0005
1	0.75	1745	56C	TENV	VEWDM3546	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.06	CD0005
		1740	56C	TENV	VWDM3546	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.06	CD0005
		1760	143TC	TEFC	VEFWDM3546T	1.5	12.1	2.97	82.1	82.4	85.6	49	62	71	6205	6203	E	12.30	CD0005
		1745	143TC	TENV	VEWDM3546T	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.12	CD0005
		1740	143TC	TENV	VWDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6205	6203	E	11.12	CD0005
1.5	1.1	1755	56C	TENV	VEWDM3554	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	12.94	CD0005
		1755	56C	TENV	VWDM3554	2.2	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.06	CD0005
		1760	143TC	TEFC	VEFWDM3554T	2.2	18.3	4.47	84.5	86.8	87.1	51	65	73	6205	6203	E	13.28	CD0005
		1755	145TC	TENV	VEWDM3554T	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	13.00	CD0005
		1755	145TC	TENV	VWDM3554T	2.6	19.3	4.51	83.1	85.4	85.8	52	65	74	6205	6203	E	12.12	CD0005
2	1.5	1755	56C	TEFC	VEWDM3558	2.9	24.3	5.95	84.2	86.4	87.3	51	64	73	6205	6203	E	14.10	CD0005
		1735	56C	TEFC	VWDM3558	3	24.8	6.05	79.2	82.2	82.7	53	67	76	6205	6203	E	13.22	CD0005
		1755	145TC	TEFC	VEWDM3558T	2.9	24.3	5.95	84.2	86.4	87.3	51	64	73	6205	6203	E	14.18	CD0005
		1750	145TC	TEFC	VWDM3558T	3.1	23.8	5.96	81	83.6	84.1	50	63	72	6205	6203	E	13.28	CD0005
3	2.2	3450	56C	TEFC	VWDM3559	3.7	35.5	4.7	86.4	87	86.5	78	86	90	6205	6203	E	14.12	CD0005
		1750	145TC	TEFC	VWDM3561T	4.2	36.6	9.08	86.5	87.8	87.5	58	71	78	6205	6203	E	15.43	CD0005
		1760	182TC	TEFC	VEWDM3611T	4.2	32	8.88	87.8	89.5	89.6	54	68	75	6206	6205	E	16.54	CD0005
		1750	182TC	TEFC	VWDM3611T	4.2	36.6	9.08	86.5	87.8	87.5	58	71	78	6206	6205	E	16.56	CD0005
5	3.7	1750	184TC	TEFC	VEWDM3615T	6.7	49.1	14.9	89.7	90.3	89.8	60	72	78	6206	6205	E	18.05	CD0005
		1745	184TC	TEFC	VWDM3615T	6.8	48.4	15	87.1	88.3	87.8	59	72	78	6206	6205	E	16.54	CD0005
7.5	5.6	1770	213TC	TEFC	VEWDM3710T	9.4	70.1	22.4	92.2	92.7	92.2	63	75	81	6307	6206	E1	19.78	CD0005
		1770	213TC	TEFC	VWDM3710T	10.1	77.5	22.2	88.1	89.7	89.8	58	71	77	6307	6206	E	18.63	CD0005
10	7.5	1770	215TC	TEFC	VEWDM3714T	12	103	29.5	92.1	92.4	91.8	66	79	85	6307	6206	F	21.27	CD0005
		1770	215TC	TEFC	VWDM3714T	13.5	107	29.5	88.2	89.6	89.7	58	70	77	6307	6206	E	19.78	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz.
See page 44 for Connection Diagrams. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

575 Volt Washdown Duty Motors

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 575 Volts, Three Phase, 1/2 - 20 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
C-Face, Foot Mounted																		
0.5	0.37	1740	56C	TENV	CWDM3538-5	0.7	5.1	1.49	73.1	78.5	79.8	45	58	69	6205	6203	11.06	CD0006
0.75	0.56	1750	56C	TENV	CWDM3542-5	1.1	8.4	2.26	71.1	76	78.6	44	56	66	6205	6203	11.06	CD0006
1	0.75	1745	56C	TENV	CEWDM3546-5	1.2	10.7	3.02	83.6	85.9	85.6	53	67	76	6205	6203	12.06	CD0006
		1745	56C	TENV	CWDM3546-5	1.2	10.2	2.99	79.4	82.9	82.9	52	66	75	6205	6203	11.06	CD0006
1.5	1.1	1755	145TC	TENV	CEWDM3554T-5	1.7	15.8	4.45	87	88.3	88.7	55	68	76	6205	6203	13.00	CD0006
		1755	145TC	TENV	CWDM3554T-5	1.8	15.7	4.41	81.4	84.5	85.5	50	64	72	6205	6203	12.12	CD0006
2	1.5	1755	145TC	TEFC	CEWDM3558T-5	2.4	19.6	5.95	83.8	86.4	86.6	50	64	73	6205	6203	14.16	CD0006
3	2.2	1760	182TC	TEFC	CEWDM3611T-5	3.3	25.9	8.88	87.7	89.5	89.5	54	67	75	6206	6205	16.54	CD0006
5	3.7	1750	184TC	TEFC	CEWDM3615T-5	5.3	39.3	14.9	89.6	90.5	89.5	60	72	78	6206	6205	18.04	CD0006
7.5	5.6	1770	213TC	TEFC	CEWDM3710T-5	7.6	58.5	22.2	91.1	92.3	91.7	61	74	81	6307	6206	19.78	CD0006
10	7.5	1770	215TC	TEFC	CEWDM3714T-5	9.6	83.9	29.5	92	92.7	91.9	65	78	85	6307	6206	21.27	CD0006
15	11	1765	254TC	TEFC	CEWDM23933T-5	14.5	101	45	92	92.9	92.8	73	84	89	6309	6208	23.57	CD0006
20	15	1765	256TC	TEFC	CEWDM23934T-5	19	134	60	93	93.5	93.2	75	83	85	6309	6208	23.57	CD0006
C-Face, Footless																		
0.5	0.37	1740	56C	TENV	VWDM3538-5	0.7	5.1	1.49	73.1	78.5	79.8	45	58	69	6205	6203	11.06	CD0006
0.75	0.56	1750	56C	TENV	VWDM3542-5	0.9	7.7	2.24	76.3	79.6	80.9	52	64	74	6205	6203	11.06	CD0006
1	0.75	1740	56C	TENV	VWDM3546-5	1.2	10.4	2.99	79.4	82.9	82.9	52	66	75	6205	6203	11.06	CD0006
1.5	1.1	1755	145TC	TENV	VWDM3554T-5	1.8	15.7	4.41	81.4	84.5	85.5	50	64	72	6205	6203	12.12	CD0006
2	1.5	1750	145TC	TEFC	VWDM3558T-5	2.5	18.9	5.96	80.9	83.5	84.2	50	63	72	6205	6203	13.28	CD0006

NOTE: See page 44 for Connection Diagram. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Feather Picker Washdown Duty Motors

Baldor Feather Picker motors are designed to withstand punishing, high-pressure, wet environments common in poultry processing plants. Dimensions, shaft and top-mounted conduit box configurations make these motors interchangeable with most OEM poultry processing equipment. These motors have the same mechanical design characteristics as Baldor's three phase painted Washdown Duty motors.

Feather Picker Motors - TEFC - Totally Enclosed Fan Cooled, Design C, 1 1/2 - 3 Hp

Hp	kW	RPM	Frame	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
					Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1.5	1.1	1150	145TY	WDM3553TP-9	2.7	20.2	6.78	82.1	84.9	85.6	41	53	61	6205	6203	E	15.04	CD0005
2	1.5	1750	145T	WDM3558TP-9	3.1	23.8	5.96	80.9	83.6	84.2	50	63	72	6205	6203	E	13.28	CD0005
		1165	184TZ	WDM3663TP-9	3.4	23.2	9.02	84.9	86.8	86.8	45	57	65	6206	6205	E1	15.79	CD0005
3	2.2	1740	145T	WDM3561TP-9	4	32.4	9.17	88.5	88.9	88	63	75	81	6205	6203	E1	15.04	CD0005
		1740	145TY	WDM3563TP-9	4	32.4	9.17	88.5	88.9	88	63	75	81	6205	6203	E1	15.04	CD0005
C-Face, Foot Mounted, Encapsulated																		
3	2.2	1740	145TC	CWDM3561TP-9	4	32.6	9.18	88.1	88.5	87.8	62	74	80	6205	6203	E1	15.53	CD0005

NOTE: Volt Code: E = 230/460 V, 60 Hz; E1=230/460 V, 60 Hz, Usable at 208 V.
See page 44 for Connection Diagram. See page 34 for dimension drawing.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Super White Washdown Duty Motors

The new Super White Washdown Duty motors incorporate all of the great features of Baldor's white washdown duty motors. This includes improved exterior paint, 300 series stainless steel shaft, hardware and nameplate, easily removable drain plugs, neoprene gaskets and sealers. Additionally, this new line of motors includes a labyrinth seal on each end of motor, same size bearings on each end, and enhanced sealing around the lead exit. Super-E® with NEMA Premium® efficiency and 3-year warranty.

TEFC - Totally Enclosed Fan Cooled
C-Face Foot Mounted 230/460 Volts, Three Phase, 1 - 20 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	3450	56C	TEFC	CEWWDM3545	1.4	9	1.5	67.8	73.5	75.1	74	81	85	6205	6205	F	12.35	CD0005
		1745	56C	TEFC	CEFWWDM3546	1.5	12.1	2.97	82.1	84.8	85.6	49	62	71	6205	6205	E	12.35	CD0005
		1745	143TC	TEFC	CEFWWDM3546T	1.5	12.1	2.97	82.1	84.8	85.6	49	62	71	6205	6205	E	13.28	CD0005
1.5	1.1	3500	56C	TEFC	CEFWWDM3550	2	23.5	2.3	82.5	85.2	86.1	71	81	87	6205	6205	E	13.32	CD0005
		1755	145TC	TEFC	CEFWWDM3554T	2.2	18.3	4.47	84.5	86.8	87.1	51	65	73	6205	6205	E	13.28	CD0005
2	1.5	3490	56HCY	TEFC	CEWWDM3555	2.5	25.9	2.98	83.5	85.9	86.4	75	84	88	6205	6205	E	13.32	CD0005
		3490	145TC	TEFC	CEWWDM3555T	2.5	25.9	2.98	83.5	85.9	86.4	75	84	88	6205	6205	E	13.28	CD0005
		1755	145TC	TEFC	CEWWDM3558T	2.9	24.3	5.95	84.2	86.4	87.3	51	64	73	6205	6205	E	14.17	CD0005
3	2.2	3450	145TC	TEFC	CEWWDM3559T	3.5	39.2	4.59	87.7	88.3	87.6	81	88	92	6205	6205	F	15.55	CD0005
		3450	182TC	TEFC	CEWWDM3610T	3.6	33.1	4.61	87.9	88.2	88.5	81	88	92	6206	6206	E	16.54	CD0005
		1760	182TC	TEFC	CEWWDM3611T	4.2	32	8.88	87.8	89.5	89.6	54	68	75	6206	6206	E	16.54	CD0005
5	3.7	3450	184TC	TEFC	CEWWDM3613T	5.9	57.2	7.64	88.4	89.1	88.3	81	88	91	6206	6206	E	16.54	CD0005
		1750	184TC	TEFC	CEWWDM3615T	6.7	49.1	14.9	89.7	90.3	89.8	60	72	78	6206	6206	E	18.04	CD0005
7.5	5.6	3450	184TC	TEFC	CEWWDM3616T	8.4	91	11.4	90.6	90.7	89.8	85	90	93	6206	6206	E	18.04	CD0005
		3520	213TC	TEFC	CEWWDM3709T	9	68.4	10.9	88.8	90.5	90.6	69	79	84	6307	6307	E	18.64	CD0005
		1770	213TC	TEFC	CEWWDM3710T	9.4	70.1	22.4	92.2	92.7	92.2	63	75	81	6307	6307	E1	19.78	CD0005
10	7.5	3490	215TC	TEFC	CEWWDM3711T	11.8	78.5	15	91	91.3	90.8	74	84	87	6307	6307	E	18.64	CD0005
		1770	215TC	TEFC	CEWWDM3714T	12	103	29.5	92.1	92.4	91.7	66	79	85	6307	6307	F	21.27	CD0005
15	11	3500	215TC	TEFC	CEWWDM3713T	17	150	22.1	91.5	92.2	91.8	77	85	88	6307	6307	E	21.26	CD0180
		3500	254TC	TEFC	CEWWDM23994T	16.7	135	22.1	91.1	92	91.7	80	87	90	6309	6309	F	23.57	CD0005
		1765	254TC	TEFC	CEWWDM23933T	18	125	45	92.1	93	92.8	71	81	86	6309	6309	F	23.57	CD0005
20	15	3520	256TC	TEFC	CEWWDM41906T	22.5	165.7	29.8	92.5	93	92.5	79	86	90	6309	6309	F	23.57	CD0005
		1765	256TC	TEFC	CEWWDM23934T	24	171	60	92.9	93.5	93.2	67	79	84	6309	6309	E	23.57	CD0180

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V; F = 230/460V, 60 Hz.
See page 44 for Connection Diagrams. See page 30 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Close-Coupled Pump Washdown Duty Motors

Baldor close-coupled pump Washdown Duty motors are for commercial and industrial water pump applications, or food processing applications that are exposed to high-pressure washdowns. Features over-sized ball bearings with locked drive end construction to minimize shaft movement. Contaminant and moisture-prevention features include a moisture sealant on the bolt heads between the frame and endplates, neoprene gaskets, and a Forsheda® running contact V-ring.

White Washdown
TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1 - 15 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1740	143JM	TENV	JMWDM3546T	1.5	13.2	2.99	79.7	82.6	83.2	51	65	74	6206	6203	E	14.25	CD0005
1.5	1.1	3450	143JM	TEFC	JMWDM3550T	2.1	16	2.2	83.9	85.4	85.1	64	75	76	6206	6203	E	15.43	CD0005
		1755	145JM	TENV	JMWDM3554T	2.3	19.3	4.51	83	85.4	85.8	52	65	74	6206	6203	E	14.25	CD0005
2	1.5	3450	145JM	TEFC	JMWDM3555T	2.6	24.3	3	81.2	84	84.2	73	80	85	6206	6203	E	15.43	CD0005
		1750	145JM	TEFC	JMWDM3558T	3.1	23.8	5.96	81	83.6	84.1	50	63	72	6206	6203	E	15.43	CD0005
3	2.2	3450	145JM	TEFC	JMWDM3559T	3.7	35.5	4.7	86.4	87	86.5	78	86	90	6206	6203	E	16.31	CD0005
		1750	182JM	TEFC	JMWDM3611T	4.2	36.6	9.08	86.5	87.8	87.5	58	71	78	6207	6203	E	18.19	CD0005
5	3.7	3450	184JM	TEFC	JMWDM3613T	5.8	54	7.65	88	88	87.5	81	89	93	6207	6205	E	18.05	CD0005
		1750	184JM	TEFC	JMWDM3615T	6.8	47.9	14.9	87.3	88.3	87.8	59	72	78	6207	6205	E	19.55	CD0005
7.5	5.6	3450	184JM	TEFC	JMWDM3616T	8.7	98.8	11.5	88.4	89.3	88.7	83	91	94	6207	6205	E	19.55	CD0005
		1770	213JM	TEFC	JMWDM3710T	10.1	77.5	22.2	88.1	89.7	89.8	58	71	77	6309	6206	E	19.78	CD0005
10	7.5	3500	215JM	TEFC	JMWDM3711T	11.5	90	14.9	91	91.2	90.3	82	88	90	6309	6206	E	19.78	CD0005
		1770	215JM	TEFC	JMWDM3714T	13.5	107	29.5	88.2	89.6	89.7	58	70	77	6309	6206	E	20.91	CD0005
15	11	3450	215JM	TEFC	JMWDM3713T	17	157	22.2	90.4	90.8	90.2	86	91	93	6309	6206	E	21.66	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz
See page 44 for Connection Diagram. See page 31 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Close-Coupled Pump SSE Super-E Stainless Steel Encapsulated Motors

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1 - 10 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
1	0.75	1760	143JM	TENV	JMSSEWDM3546T	1.5	15	2.98	84.4	87.2	87.8	49	63	72	6206	6205	E	14.94	CD0005
1.5	1.1	3500	143JM	TENV	JMSSEWDM3550T	1.8	20.6	2.31	82.3	85.2	86.1	77	86	92	6206	6205	E	15.82	CD0005
		1765	145JM	TEFC	JMSSEWDM3554T	2.2	20	4.49	86	87.9	88.5	52	66	74	6206	6205	E	16.96	CD0005
2	1.5	3500	145JM	TEFC	JMSSEWDM3555T	2.5	31	3	83.7	86	86.6	76	85	90	6206	6205	E	16.96	CD0005
		1755	145JM	TEFC	JMSSEWDM3558T	2.7	24.1	5.99	87.3	88.7	88.8	55	69	77	6206	6205	E	18.34	CD0005
3	2.2	3470	145JM	TEFC	JMSSEWDM3559T	3.7	48.3	4.5	86.3	87.2	86.9	79	87	91	6206	6205	E	18.34	CD0005
		1760	182JM	TEFC	JMSSEWDM3611T	4.2	34.1	9.04	88.1	89.6	89.7	56	69	76	6207	6206	E1	19.73	CD0005
5	3.7	3500	184JM	TEFC	JMSSEWDM3613T	5.6	62.5	7.5	89	90	89.6	83	89	93	6207	6206	E	18.23	CD0005
		1750	184JM	TEFC	JMSSEWDM3615T	6.5	48.3	15.2	90.5	90.7	89.8	64	75	81	6207	6206	E	19.73	CD0005
7.5	5.6	3500	213JM	TEFC	JMSSEWDM3709T	8.3	87	11.5	90.9	92.1	91.9	79	90	93	6309	6307	E	21.56	CD0005
		1770	213JM	TEFC	JMSSEWDM3710T	9.5	73	22.3	91.1	92.1	91.7	65	75	81	6309	6307	E	22.75	CD0005
10	7.5	3500	215JM	TEFC	JMSSEWDM3711T	10.6	115	15	92	92.4	91.8	83	91	94	6309	6307	E	22.75	CD0005
		1770	215JM	TEFC	JMSSEWDM3714T	12.5	105.2	29.9	92.5	93.1	92.8	65	76	81	6309	6307	E	24.19	CD0180

NOTE: Volt Code: E = 208-230/460V, 60Hz; E1 = 230/460V, 60Hz, usable at 208V
See page 44 for Connection Diagrams. See page 31 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Super-E® Washdown Duty Brake Motors

Baldor Super-E Washdown Duty brake motors meet or exceed NEMA Premium® efficiency and are built to the standards of Baldor's white Washdown Duty motors. These brake motors have their spring-set brakes mounted opposite the drive end, allowing a NEMA-standard BA dimension. Brake coils are connected inside the conduit box allowing easy access for separate connection when used with an adjustable speed drive. Inverter Spike Resistant insulation system.

NEMA Premium

TEFC - Totally Enclosed Fan Cooled - TENV - Totally Enclosed Non-Ventilated - C-Face, Foot Mounted, 230/460 volts, 1/2 - 5 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.	Brake Rating
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE				
0.5	0.37	1765	56C	TENV	CEWDBM3538	0.9	7.5	1.49	77.6	81.5	83.8	41	53	63	6205	6203	E	15.31	CD0005	3
0.75	0.56	1750	56C	TENV	CEWDBM3542	1.1	9.7	2.22	80.3	83.8	84.5	49	63	72	6205	6203	E1	15.31	CD0005	6
1	0.75	1745	56C	TENV	CEWDBM3546	1.5	13.5	3	83.4	85.4	85.5	53	67	76	6205	6203	E	16.31	CD0005	6
		1745	143TC	TENV	CEWDBM3546T	1.5	13.5	3	83.4	85.4	85.5	53	67	76	6205	6203	E	16.81	CD0005	6
1.5	1.1	1755	145TC	TENV	CEWDBM3554T	2.1	20	4.45	87	88.3	88.8	54	68	76	6205	6203	E	18.14	CD0005	10
2	1.5	1755	145TC	TEFC	CEWDBM3558T	2.9	24.3	5.95	84.2	86.4	87.3	51	64	73	6205	6203	E	19.44	CD0005	10
3	2.2	1760	182TC	TEFC	CEWDBM3611T	4.2	32	8.88	87.8	89.5	89.6	54	68	75	6206	6205	E	21.80	CD0005	15
5	3.7	1750	184TC	TEFC	CEWDBM3615T	6.7	49.1	14.9	89.7	90.3	89.8	60	72	78	6206	6205	E	23.30	CD0005	25

NOTE: Volt Code: E = 208-230/460 volts, E1 = 230/460V, 60Hz, usable at 208V.
See page 44 for Connection Diagram. See pages 34-35 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Single Phase Washdown Duty Motors

In food or pharmaceutical processing applications where limited voltage is available, or where there's an opportunity to operate additional equipment from the same line, Baldor offers Single Phase Washdown Duty Motors. These motors have the same mechanical design characteristics as Baldor's three phase painted Washdown Duty motors.

TEFC - Totally Enclosed Fan Cooled 115/230 Volts, Single Phase, 1/2 - 1 1/2 Hp

Hp	kW	RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		"C" Dim.	Conn. Diag. No.
						Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE		
C-Face, Foot Mounted																		
0.5	0.37	1725	56C	TEFC	CWDL3504	3.7	22.6	1.51	57.1	64.6	68	46	56	65	6205	6203	12.23	CD0001
0.75	0.56	1725	56C	TEFC	CWDL3507	5.5	34.6	2.25	62	68	69.7	47	59	67	6205	6203	12.23	CD0001
1	0.75	3450	56C	TEFC	CWDL3509	5.9	38	1.5	61	67	68	64	72	80	6205	6203	12.23	CD0001
		1725	56C	TEFC	CWDL3510	5.9	42.3	2.99	66	70.4	70.1	57	70	78	6205	6203	13.23	CD0001
1.5	1.1	3450	56C	TEFC	CWDL3513	8	50	2.25	68	70	70	68	78	85	6205	6203	13.23	CD0001
		1725	56C	TEFC	CWDL3514	6.2	49.5	4.48	74.3	79.3	81.2	91	95	96	6205	6203	14.12	CD0055
C-Face, Footless																		
0.5	0.37	1725	56C	TEFC	VWDL3504	3.7	22.6	1.51	57.1	64.6	68	46	56	65	6205	6203	12.25	CD0001
0.75	0.56	1725	56C	TEFC	VWDL3507	5.5	34.6	2.25	62	68	69.7	47	59	67	6205	6203	12.25	CD0001
1	0.75	1725	56C	TEFC	VWDL3510	5.9	42.3	2.99	66	70.4	70.1	57	70	78	6205	6203	13.25	CD0001
1.5	1.1	1725	56C	TEFC	VWDL3514	6.2	49.5	4.48	74.3	79.3	81.2	91	95	96	6205	6203	14.10	CD0055

NOTE: 115/230 volts, usable at 208 volts, 60 Hz.
See page 45 for Connection Diagram. See page 36 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data.

Washdown and Paint-Free Inverter Drive® and Vector Drive® Motors

Washdown and Paint-Free versions of Baldor AC Inverter Drive and Vector Drive motors are designed for adjustable speed, full torque and precise positioning applications in a washdown environment. Typical applications include conveyors, pumps and batch mixing/blending. Recommended for use with Baldor Inverter and Vector controls, although these motors will work with existing OEM controls.

TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1 - 10 Hp

Hp	kW	RPM	Max. RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
							Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
White Inverter Motors, C-Face, Foot Mounted																				
1	0.75	1745	6000	143TC	TENV	IDWNM3546T	1.5	13.5	3.02	82.9	85.2	85.2	53	67	76	6205	6203	F	14.90	CD0005
1.5	1.1	1755	4500	145TC	TENV	IDWNM3554T	2.1	20	4.45	87.1	88.3	88.8	54	68	76	6205	6203	F	15.78	CD0005
2	1.5	1725	6000	182TC	TENV	IDWNM3609T	2.9	26	6	80.8	83.7	84.6	57	69	77	6206	6205	F	17.77	CD0005
3	2.2	1760	6000	184TC	TENV	IDWNM3611T	4.1	32.9	9.1	89.3	90.4	90.3	60	71	78	6206	6205	F	19.27	CD0005
5	3.7	1760	4000	213TC	TENV	IDWNM3707T	6.7	48.3	14.9	89	90.3	90.3	59	71	77	6307	6206	F	19.84	CD0005
7.5	5.6	1765	5000	254TC	TENV	IDWNM22937T	9.1	71.7	22.5	89.7	91.1	91.2	69	80	85	6309	6208	F	23.92	CD0005
10	7.5	1765	5000	254TC	TENV	IDWNM22938T	12	87	30	91.7	92.4	92	72	81	85	6309	6208	F	23.92	CD0005
White Vector Motors, C-Face, Foot Mounted																				
1	0.75	1745	6000	143TC	TENV	ZDWNM3546T	1.5	13.5	3.02	82.9	85.2	85.2	53	67	76	6205	6203	F	14.90	CD0005
1.5	1.1	1755	4500	145TC	TENV	ZDWNM3554T	2.1	20	4.45	87.1	88.3	88.8	54	68	76	6205	6203	F	15.78	CD0005
2	1.5	1725	6000	182TC	TENV	ZDWNM3609T	2.9	26	6	80.8	83.7	84.6	57	69	77	6206	6205	F	17.77	CD0005
3	2.2	1760	6000	184TC	TENV	ZDWNM3611T	4.1	32.9	9.1	89.3	90.4	90.3	60	71	78	6206	6205	F	19.27	CD0005
5	3.7	1760	6000	213TC	TENV	ZDWNM3707T	6.7	54.3	14.7	88.6	91.2	91.5	60	71	76	6307	6206	F	19.84	CD0005
7.5	5.6	1765	5000	254TC	TENV	ZDWNM22937T	9.1	71.7	22.5	89.7	91.1	91.2	69	80	85	6309	6208	F	23.92	CD0005
10	7.5	1765	5000	254TC	TENV	ZDWNM22938T	12	87	30	91.7	92.4	92	72	81	85	6309	6208	F	23.92	CD0005

TEFC - Totally Enclosed Fan Cooled, TENV - Totally Enclosed Non-Ventilated - 230/460 Volts, Three Phase, 1 - 10 Hp

Hp	kW	RPM	Max. RPM	Frame	Encl.	Catalog Number	Amps @ High V		Full Load Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings		Volt Code	"C" Dim.	Conn. Diag. No.
							Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	DE	ODE			
Paint-Free Inverter Motors, C-Face, Foot Mounted*																				
0.50	0.37	1750	6000	56C	TENV	IDCSWDM3538	0.8	7.1	1.49	79.3	82.6	83.5	48	62	72	6205	6203	E	11.06	CD0005
0.75	0.56	1740	6000	56C	TENV	IDCSWDM3542	1.1	9.8	2.27	81.9	83.8	83.5	56	70	78	6205	6203	E	11.06	CD0005
1	0.75	1745	6000	56C	TENV	IDCSWDM3546	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.06	CD0005
		1745	6000	143TC	TENV	IDCSWDM3546T	1.5	13.5	3.02	82.9	85.2	85.2	53	67	76	6205	6203	E	12.12	CD0005
1.5	1.1	1760	4000	56C	TEFC	IDCSWDM3554	2.1	20	4.45	87.1	88.3	88.8	54	68	76	6205	6203	F	14.12	CD0005
		1760	4000	145TC	TEFC	IDCSWDM3554T	2.1	20	4.45	87.1	88.3	88.8	54	68	76	6205	6203	F	14.17	CD0005
2	1.5	1750	4500	56C	TEFC	IDCSWDM3558	2.9	23.7	6.01	85.4	86.9	86.6	53	67	75	6205	6203	F	13.24	CD0005
		1750	4500	145TC	TEFC	IDCSWDM3558T	2.9	23.7	6.01	85.4	86.9	86.6	53	67	75	6205	6203	F	13.29	CD0005
3	2.2	1760	6000	182TC	TEFC	IDCSWDM3611T	4.2	34.1	9.04	88.3	89.7	89.7	56	69	76	6206	6205	F	18.06	CD0005
5	3.7	1750	6000	184TC	TEFC	IDCSWDM3615T	6.5	48.3	15.2	90.5	90.7	89.8	64	75	81	6206	6205	F	18.06	CD0005
7.5	5.6	1770	6000	213TC	TEFC	IDCSWDM3710T	9.5	73	22.3	91.1	92.1	91.7	65	75	81	6307	6206	F	19.81	CD0005
10	7.5	1770	6000	215TC	TEFC	IDCSWDM3714T	12.5	105	29.9	92.6	93.3	93	65	76	81	6307	6206	F	21.31	CD0005
Paint-Free Inverter Motors, C-Face, Footless*																				
0.50	0.37	1765	6000	56C	TENV	IDVSWDM3538	0.9	7.5	1.49	77.9	81.9	83.6	41	54	64	6205	6203	F	11.06	CD0005
0.75	0.56	1740	6000	56C	TENV	IDVSWDM3542	1.1	9.8	2.27	81.9	83.8	83.5	56	70	78	6205	6203	F	11.06	CD0005
1	0.75	1745	6000	56C	TENV	IDVSWDM3546	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.06	CD0005
		1745	6000	143TC	TENV	IDVSWDM3546T	1.5	13.5	3.02	83.4	85.4	85.5	53	67	76	6205	6203	E	12.12	CD0005
1.5	1.1	1760	4000	56C	TEFC	IDVSWDM3554	2.1	20	4.45	87.1	88.3	88.8	54	68	76	6205	6203	F	14.12	CD0005
		1760	4000	145TC	TEFC	IDVSWDM3554T	2.1	20	4.45	87.1	88.3	88.8	54	68	76	6205	6203	F	14.17	CD0005
2	1.5	1750	4500	56C	TEFC	IDVSWDM3558	2.9	23.7	6.01	85.4	86.9	86.6	53	67	75	6205	6203	F	13.24	CD0005
		1750	4500	145TC	TEFC	IDVSWDM3558T	2.9	23.7	6.01	85.4	86.9	86.6	53	67	75	6205	6203	F	13.29	CD0005
3	2.2	1760	6000	182TC	TEFC	IDVSWDM3611T	4.2	34.1	9.04	88.3	89.7	89.7	56	69	76	6206	6205	F	18.06	CD0005
5	3.7	1750	6000	184TC	TEFC	IDVSWDM3615T	6.5	48.3	15.2	90.5	90.7	89.8	64	75	81	6206	6205	F	18.06	CD0005

NOTE: Volt Code: E = 208-230/460V, 60Hz; F = 230/460V, 60 Hz; See page 44 for Connection Diagrams. See pages 32-33 for dimensions.
Efficiencies shown are nominal. Data subject to change without notice. Contact Baldor for certified data. Vector Drive motors include 1024PPR industrial duty encoder.
*Paint-Free Inverter Motors are not encoder adaptable.

Series 5 Washdown Micro Inverters

c UL us

When space is at a premium in a washdown application, Baldor Series 5 Micro Inverters provide variable torque, constant torque and constant horsepower control in a small package. These controls may be used in new installations, replacements or original equipment. The NEMA 4X enclosure is suitable for frequent washdowns. They have an output frequency of 0.25 to 120 Hz, with a peak overload capacity of 150%. Control features include separate accel/decel rates and controlled reversing. Standard operator control includes rotary speed settings, start/stop command and power on/off.

Hp/kW	Input Volt	Output Current		Catalog Number	Dimensions in/(mm)				
					Outside			Mounting	
		Cont.	120 Sec.		H	W	D	H	W
Single Phase Input									
1/0.75	115/230	3.6	5.4	**ID5601-WO**	9.53	5.51	5.86	8.85	–
1/0.75	115/230	3.6	5.4	**ID5601-BO**	9.53	5.51	5.86	8.85	–
2/1.5	115/230	5.5/6.7	8.3/10.0	**ID5602-WO**	9.8	7.55	7.25	9.25	1
2/1.5	115/230	5.5/6.7	8.3/10.0	**ID5602-BO**	9.8	7.55	7.25	9.25	1
Three Phase Input									
3/2.25	230	9	13.5	**ID5203-WO**	9.8	7.55	7.25	9.25	1
3/2.25	230	9	13.5	**ID5203-BO**	9.8	7.55	7.25	9.25	1
3/2.25 ①	460	4.6	6.9	**ID5403-WO**	9.8	7.55	7.25	9.25	1
3/2.25 ①	460	4.6	6.9	**ID5403-BO**	9.8	7.55	7.25	9.25	1
5/3.7	460	8.3	12.45	**ID5405-WO**	9.8	7.55	7.25	9.25	1
5/3.7	460	8.3	12.45	**ID5405-BO**	9.8	7.55	7.25	9.25	1

NOTE: -WO is white in color -BO is black in color
① Jumper configurable for 1 HP and 2 HP

Output Ratings	Overload Capacity	150% for 120 seconds
	Voltage - 3 Phase	0-230 VAC (RMS), 0-460 VAC (RMS)
Control Spec	Control Method	Sinewave carrier input, PWM output
	PWM Frequency	Rated 8.0 kHz
	V/Hz Ratio	Factory set for optimum output
	Torque Boost	Adjustable 0-30% max
	Current Limit	Adjustable of rated output
	Frequency Setting	0-5 VDC, 0-10 VDC with external resistor network, non-isolated input
	Accel/Decel	Separate accel/decel rates, 0.3-20 sec
Protective Functions	Inverter Trip	Over voltage, over current, under voltage, motor overload, output short circuit
	Status Indicators	Tricolor LED indicator for status and green LED indicator for power on short circuit output phase to phase
Ambient Conditions	Temperature	0-50°C
	Cooling	Convection; 3300 feet max without derate
	Enclosure	NEMA 4X (IP65)

Catalog No.	Accessories for Series 5 Inverters	Ap'x. Shpg. Wgt.
ID5SI-2	Signal isolator for NEMA 4X enclosed units Provides isolation for up to 24 VDC and 4-20mA command signals	0.5
ID5AMS-1	Auto/manual selection switch for NEMA 4X enclosed units Allows selection of remote or on-board speed commands	0.3
ID5FRS-1	Forward/stop/reverse selection switch for NEMA 4X enclosed units Allows selection of forward or reverse motor direction command	0.4

NOTE: See page 37 for dimension drawing. Data subject to change without notice. Contact Baldor for certified data.

VS1SP Washdown Inverter/ Encoderless Vector Drive

1 thru 3 Hp	**115/230 VAC**	**1 Phase - 50/60 Hz**
1 thru 20 Hp	**230 VAC**	**3 Phase - 50/60 Hz**
1 thru 25 Hp	**460 VAC**	**3 Phase - 50/60 Hz**
1 thru 25 Hp	**575 VAC**	**3 Phase - 50/60 Hz**

Applications: Constant torque, variable torque or constant horsepower applications. New installations, replacements and original equipment manufacturers (OEM).

Features: NEMA 4 enclosure. Output frequency 0 to 500 Hz with peak overload capacity of 175%. Separate accel/decl rates and controlled reversing. Built-in two and three input PID process control loop.

Input Ratings	Voltage	115	230	230	460	575
	Voltage Range	95-130	180-264	180-264	340-528	515-660
	Phase	Single Phase		Three Phase (single phase with derating)		
	Frequency	50/60Hz +5%				
	Impedance	1% minimum from mains connection				
Output Ratings	Horsepower	1-3 Hp @ 115/230VAC, 1PH; 1-7.5 Hp @ 230VAC, 3PH; 1-10 Hp @ 460VAC, 3PH; 1-10 Hp @ 575VAC, 3PH				
	Overload Capacity	Heavy Duty™ (Constant Torque) = 150% for 60 seconds, 175% for 3 seconds				
		Normal Duty™ (Variable Torque) = 115% for 60 seconds				
	Frequency	0-500Hz				
	Voltage	0 to maximum input voltage (RMS) (NOTE: 0 to 230 V for 115 V Single Phase Units)				
Protective Features	Trip	Missing control power, over current, over voltage, under voltage, over temperature (motor or control), output shorted or grounded, motor overload				
	Stall Prevention	Over voltage suppression, overcurrent suppression				
	External Output	LED trip condition indicators, 4 assignable logic outputs, 2 assignable analog outputs				
	Short Circuit	Phase to phase, phase to ground				
	Electronic Motor Overload	Meets UL508C (I^2T)				
Environmental Conditions	Temperature	-10 to 45°C. Derate 3% per °C to maximum ambient temperature of 55°C.				
	Cooling	Forced air				
	Enclosure	NEMA 4X				
	Altitude	Sea level to 3300 Feet (1000 Meters) Derate 2% per 1000 Feet (303 Meters) above 3300 Feet				
	Humidity	NEMA 4X: To 100% RH Condensing				
	Shock / Vibration	1G / 0.5G at 10Hz to 60Hz				
	Storage Temperature	-10 to +65°C				
Keypad Display	Display	LCD Graphical 128x64 Pixel				
	Keys	14 key membrane with tactile feedback				
	Functions	Output status monitoring, Digital speed control, Parameter setting and display, Diagnostic and Fault log display, Motor run and jog, Local/ Remote toggle				
	LED Indicators	Forward run command, Reverse run command, Stop command, Jog active				
	Remote Mount	200 feet (60.6m) maximum from control, NEMA 4 Rated				
	Trip	Separate message and trace log for each trip, last 10 trips retained in memory				
Control Specifications	Control Method	Microprocessor controlled PWM output, selectable encoderless vector or V/Hz inverter				
	PWM Frequency	Adjustable 1.5-5kHz STD, 5-16 kHz quiet				
	Frequency Setting	±5 VDC, 0-5 VDC ±10 VDC, 0-10 VDC, 4-20 mA or 0-20 mA; digital (keypad), Serial Comms/USB 2.0, and Modbus RTU standard				
	Accel/Decel	0-3600 seconds				
	V/Hz Ratio	Linear to squared reduced, base frequency, output voltage, minimum frequency limit, maximum frequency limit				
	Torque Boost	0-30% of input voltage; automatic with manual override				
	Brake Torque	20% standard on Sizes AA and B, 1% standard on Size C, D				
	Skip Frequency	Three zones 0-Max frequency				
	PC Setup Software	MINT® WorkBench Software available using the USB 2.0 port for commissioning wizard, firmware download, parameter viewer, scope capture and cloning				
	Maximum Output Frequency	500 Hz				
	Selectable Operating Modes	Keypad, Standard Run, 2-Wire, Standard Run 3-Wire, 15 Preset Speeds, Fan Pump 2-Wire, Fan Pump 3-Wire, Process Control, 3-SPD ANA 2-Wire, 3-SPD ANA 3-Wire, Electronic Pot 2-Wire, Electronic Pot 3-Wire, Network Profile Run, Bipolar				
Analog Inputs	One Differential	±5VDC, ±10VDC, 4-20 mA and 0-20 mA, 11-bit + sign				
	One Single Ended	0 - 10 VDC, 11-bit				
	Input Impedance	80 kOhms (Volt mode); 500 Ohms (Current mode)				
Analog Outputs	Analog Outputs	2 Assignable				
	Full Scale Range	AOUT1 (0-5V, 0-10V, 0-20mA or 4-20mA), AOUT2 (+5V, +10V)				
	Source Current	1 mA maximum (volt mode), 20mA (current mode)				
	Resolution	9 bits				
Digital Inputs	Opto-isolated Inputs	8 Assignable, 1 dedicated input (Drive Enable)				
	Rated Voltage	10 - 30 VDC (closed contacts std)				
	Input Impedance	4.71 k Ohms				
	Leakage Current	10 mA maximum				
	Update Rate	16 msec				
Digital Outputs (2 Opto Outputs)	Rated Voltage	5 to 30VDC				
	Maximum Current	60 mA Maximum				
	ON Voltage Drop	2 VDC Maximum				
	OFF Leakage Current	0.1 mA Maximum				
	Output Conditions	25 Conditions				
Digital Outputs (2 Relay Outputs)	Rated Voltage	5 to 30VDC or 240VAC				
	Maximum Current	5A Maximum non-inductive				
	Output Conditions	25 Conditions				

VS1SP Inverter/Encoderless Vector - NEMA 4 Washdown Enclosure

Catalog Number	Size	Heavy Duty™				Normal Duty™			
		Hp	kW	Cont. Amps	Peak Amps	Hp	kW	Cont. Amps	Peak Amps
115/230 Volts - Single Phase Input									
VS1SP61-4B	AA	1	0.75	4.2	7.4	2	1.5	6.8	8.5
VS1SP62-4B	AA	2	1.5	6.8	11.9	3	2.2	9.6	12
VS1SP63-4B	AA	3	2.2	9.6	16.8	3	2.2	9.6	12
230 Volts - Three Phase Input									
VS1SP21-4B	AA	1	0.75	4.2	7.35	2	1.5	6.8	8.5
VS1SP22-4B	AA	2	1.5	6.8	11.9	3	2.2	9.6	12
VS1SP23-4B	AA	3	2.2	9.6	16.8	5	3.7	15.2	19
VS1SP25-4B	AA	5	3.7	15.2	26.6	7.5	5.6	22	27.5
VS1SP27-4B	AA	7.5	5.6	22	38.5	7.5	5.6	22	27.5
VS1SP210-4B	B-N4X	10	7.5	28	49	15	11	42	52.5
VS1SP215-4B	B-N4X	15	11	42	73.5	20	15	54	67.5
VS1SP220-4B	B-N4X	20	15	54	94.5	25	18.7	68	85
460 Volts - Three Phase Input									
VS1SP41-4B	AA	1	0.75	2.1	3.68	2	1.5	3.4	4.25
VS1SP42-4B	AA	2	1.5	3.4	5.95	3	2.2	4.8	6
VS1SP43-4B	AA	3	2.2	4.8	8.4	5	3.7	7.6	9.5
VS1SP45-4B	AA	5	3.7	7.6	13.3	7.5	5.6	11	13.75
VS1SP47-4B	AA	7.5	5.6	11	19.3	10	7.5	14	17.5
VS1SP410-4B	AA	10	7.5	14	24.5	10	7.5	14	17.5
VS1SP415-4B	B-N4X	15	11	21	36.75	20	15	27	33.75
VS1SP420-4B	B-N4X	20	15	27	47.25	25	18.7	34	42.5
VS1SP425-4B	B-N4X	25	18.7	34	60	30	22	40	55
575 Volts - Three Phase Input									
VS1SP51-4B	AA	1	0.75	1.7	3	2	1.5	2.7	3.4
VS1SP52-4B	AA	2	1.5	2.7	4.7	3	2.2	3.9	4.9
VS1SP53-4B	AA	3	2.2	3.9	6.8	5	3.7	6.1	7.6
VS1SP55-4B	AA	5	3.7	6.1	10.7	7.5	5.6	9	11.3
VS1SP57-4B	AA	7.5	5.6	9	15.8	10	7.5	11	13.8
VS1SP510-4B	AA	10	7.5	11	19.3	10	7.5	11	13.8
VS1SP515-4B	B-N4X	15	11	17	29.8	20	15	22	27.5
VS1SP520-4B	B-N4X	20	15	22	38.5	25	18.7	27	33.8
VS1SP525-4B	B-N4X	25	18.7	27	47.2	30	22	32	40

Mounting Dimensions

Frame	Dimensions inches (mm)					Ap'x. Shpg. Wgt.
	Outside			Mounting		
	Height Inches (mm)	Width Inches (mm)	Depth Inches (mm)	Height Inches (mm)	Width Inches (mm)	lbs. (kg)
AA	12.27 (312)	7.97 (202)	8.21 (209)	11.75 (298)	7.38 (187)	20 (9.1)
B-N4X	17.5 (444)	10.73 (273)	10.47 (266)	16.5 (419)	9.78 (248) or 7.88 (200)	32 (14.5)

BALDOR

A MEMBER OF THE ABB GROUP

VS1GV Washdown Vector Drive

1 thru 3 Hp	**115/230 VAC**	**1 Phase - 50/60 Hz**
1 thru 20 Hp	**230 VAC**	**3 Phase - 50/60 Hz**
1 thru 25 Hp	**460 VAC**	**3 Phase - 50/60 Hz**
1 thru 25 Hp	**575 VAC**	**3 Phase - 50/60 Hz**

Applications: Constant torque or constant horsepower applications. New installations, replacements and original equipment manufacturers (OEM).

Features: NEMA 4 enclosure. Output frequency 0 to 500 Hz with peak overload capacity of 175%. Digital speed or torque control. Built-in two and three input PID process control loop. Automatic tuning to motor and full rated torque down to zero speed.

Input Ratings	Voltage	115	230	230	460	575
	Voltage Range	95-130	180-264	180-264	340-528	515-660
	Phase	Single Phase		Three Phase (single phase with derating)		
	Frequency	50/60Hz +5%				
	Impedance	1% minimum from mains connection				
Output Ratings	Horsepower	1-3 Hp @ 115/230VAC, 1PH; 1-7.5 Hp @ 230VAC, 3PH; 1-10 Hp @ 460VAC, 3PH; 1-10 Hp @ 575VAC, 3PH				
	Overload Capacity	Heavy Duty™ (Constant Torque) = 150% for 60 seconds, 175% for 3 seconds				
		Normal Duty™ (Variable Torque) = 115% for 60 seconds				
	Frequency	0-500Hz				
	Voltage	0 to maximum input voltage (RMS) (NOTE: 0 to 230 V for 115 V Single Phase Units)				
Protective Features	Trip	Missing control power, over current, over voltage, under voltage, over temperature (motor or control), output shorted or grounded, motor overload, encoder loss.				
	Stall Prevention	Over voltage suppression, overcurrent suppression				
	External Output	LED trip condition indicators, 4 assignable logic outputs, 2 assignable analog outputs				
	Short Circuit	Phase to phase, phase to ground				
	Electronic Motor Overload	Meets UL508C (I^2T)				
Environmental Conditions	Temperature	-10 to 45°C. Derate 3% per °C to maximum ambient temperature of 55°C.				
	Cooling	Forced air				
	Enclosure	NEMA 4X				
	Altitude	Sea level to 3300 Feet (1000 Meters) Derate 2% per 1000 Feet (303 Meters) above 3300 Feet				
	Humidity	NEMA 4X: To 100% RH Condensing				
	Shock / Vibration	1G / 0.5G at 10Hz to 60Hz				
	Storage Temperature	-10 to +65°C				
Keypad Display	Display	LCD Graphical 128x64 Pixel				
	Keys	14 key membrane with tactile feedback				
	Functions	Output status monitoring, Digital speed control, Parameter setting and display, Diagnostic and Fault log display, Motor run and jog, Local/ Remote toggle, One-step tuning				
	LED Indicators	Forward run command, Reverse run command, Stop command, Jog active				
	Remote Mount	200 feet (60.6m) maximum from control, NEMA 4 Rated				
	Trip	Separate message and trace log for each trip, last 10 trips retained in memory				
Control Specifications	Control Method	Microprocessor controlled PWM output, selectable closed loop vector, encoderless vector or V/Hz inverter				
	PWM Frequency	Adjustable 1.5-5kHz STD, 5-16 kHz quiet				
	Frequency Setting	±5 VDC, 0-5 VDC ±10 VDC, 0-10 VDC, 4-20 mA or 0-20 mA; digital (keypad), Serial Comms/USB 2.0, and Modbus RTU standard				
	Accel/Decel	0-3600 seconds				
	Brake Torque	20% standard on Sizes AA and B, 1% standard on Size C, D				
	Motor Matching	Automatic tuning to motor with manual override				
	PC Setup Software	MINT® WorkBench Software available using the USB 2.0 port for commissioning wizard, firmware download, parameter viewer, scope capture and cloning				
	Maximum Output Frequency	500 Hz				
	Selectable Operating Modes	Keypad, Standard Run, 2-Wire, Standard Run 3-Wire, 15 Preset Speeds, Fan Pump 2-Wire, Fan Pump 3-Wire, Process Control, 3-SPD ANA 2-Wire, 3-SPD ANA 3-Wire, Electronic Pot 2-Wire, Electronic Pot 3-Wire, Network Profile Run, Bipolar				
Motor Feedback	Feedback Type	Incremental encoder coupled to motor shaft; optional resolver feedback				
	Pulses/Rev	60-20,000 selectable, 1024 standard				
	Voltage Output	2 channel in quadrature, 5 VDC, differential				
	Marker Pulse	Required for position orientation				
	Power Input	5 VDC, 12 VDC, 300 mA maximum				
	Max. Frequency	4 MHz				
	Positioning	Buffered encoder pulse train output for position loop controller				
Analog Inputs	One Differential	±5VDC, ±10VDC, 4-20 mA and 0-20 mA, 11-bit + sign				
	One Single Ended	0 - 10 VDC, 11-bit				
	Input Impedance	80 kOhms (Volt mode); 500 Ohms (Current mode)				
Analog Outputs	Analog Outputs	2 Assignable				
	Full Scale Range	AOUT1 (0-5V, 0-10V, 0-20mA or 4-20mA), AOUT2 (+5V, +10V)				
	Source Current	1 mA maximum (volt mode), 20mA (current mode)				
	Resolution	9 bits				
Digital Inputs	Opto-isolated Inputs	8 Assignable, 1 dedicated input (Drive Enable)				
	Rated Voltage	10 - 30 VDC (closed contacts std)				
	Input Impedance	4.71 k Ohms				
	Leakage Current	10 mA maximum				
	Update Rate	16 msec				
Digital Outputs (2 Opto Outputs)	Rated Voltage	5 to 30VDC				
	Maximum Current	60 mA Maximum				
	ON Voltage Drop	2 VDC Maximum				
	OFF Leakage Current	0.1 mA Maximum				
	Output Conditions	25 Conditions				
Digital Outputs (2 Relay Outputs)	Rated Voltage	5 to 30VDC or 240VAC				
	Maximum Current	5A Maximum non-inductive				
	Output Conditions	25 Conditions				

VS1GV Closed Loop Vector NEMA 4 Washdown Enclosure

Catalog Number	Size	Heavy Duty™				Normal Duty™			
		Hp	kW	Cont. Amps	Peak Amps	Hp	kW	Cont. Amps	Peak Amps
115/230 Volts - Single Phase Input									
VS1GV61-4B	AA	1	0.75	4.2	7.4	2	1.5	6.8	8.5
VS1GV62-4B	AA	2	1.5	6.8	11.9	3	2.2	9.6	12
VS1GV63-4B	AA	3	2.2	9.6	16.8	3	2.2	9.6	12
230 Volts - Three Phase Input									
VS1GV21-4B	AA	1	0.75	4.2	7.35	2	1.5	6.8	8.5
VS1GV22-4B	AA	2	1.5	6.8	11.9	3	2.2	9.6	12
VS1GV23-4B	AA	3	2.2	9.6	16.8	5	3.7	15.2	19
VS1GV25-4B	AA	5	3.7	15.2	26.6	7.5	5.6	22	27.5
VS1GV27-4B	AA	7.5	5.6	22	38.5	7.5	5.6	22	27.5
VS1GV210-4B	B-N4X	10	7.5	28	49	15	11	42	52.5
VS1GV215-4B	B-N4X	15	11	42	73.5	20	15	54	67.5
VS1GV220-4B	B-N4X	20	15	54	94.5	25	18.7	68	85
460 Volts - Three Phase Input									
VS1GV41-4B	AA	1	0.75	2.1	3.68	2	1.5	3.4	4.25
VS1GV42-4B	AA	2	1.5	3.4	5.95	3	2.2	4.8	6
VS1GV43-4B	AA	3	2.2	4.8	8.4	5	3.7	7.6	9.5
VS1GV45-4B	AA	5	3.7	7.6	13.3	7.5	5.6	11	13.75
VS1GV47-4B	AA	7.5	5.6	11	19.3	10	7.5	14	17.5
VS1GV410-4B	AA	10	7.5	14	24.5	10	7.5	14	17.5
VS1GV415-4B	B-N4X	15	11	21	36.75	20	15	27	33.75
VS1GV420-4B	B-N4X	20	15	27	47.25	25	18.7	34	42.5
VS1GV425-4B	B-N4X	25	18.7	34	60	30	22	40	55
575 Volts - Three Phase Input									
VS1GV51-4B	AA	1	0.75	1.7	3	2	1.5	2.7	3.4
VS1GV52-4B	AA	2	1.5	2.7	4.7	3	2.2	3.9	4.9
VS1GV53-4B	AA	3	2.2	3.9	6.8	5	3.7	6.1	7.6
VS1GV55-4B	AA	5	3.7	6.1	10.7	7.5	5.6	9	11.3
VS1GV57-4B	AA	7.5	5.6	9	15.8	10	7.5	11	13.8
VS1GV510-4B	AA	10	7.5	11	19.3	10	7.5	11	13.8
VS1GV515-4B	B-N4X	15	11	17	29.8	20	15	22	27.5
VS1GV520-4B	B-N4X	20	15	22	38.5	25	18.7	27	33.8
VS1GV525-4B	B-N4X	25	18.7	27	47.2	30	22	32	40

Mounting Dimensions

Frame	Dimensions inches (mm)					Ap'x. Shpg. Wgt.
	Outside			Mounting		
	Height Inches (mm)	Width Inches (mm)	Depth Inches (mm)	Height Inches (mm)	Width Inches (mm)	lbs. (kg)
AA	12.27 (312)	7.97 (202)	8.21 (209)	11.75 (298)	7.38 (187)	20 (9.1)
B-N4X	17.5 (444)	10.73 (273)	10.47 (266)	16.5 (419)	9.78 (248) or 7.88 (210)	32 (14.5)

VS1MX
AC Micro Drive

1/2 thru 1.5 Hp	**115 VAC**	**1 Phase - 50/60 Hz**
1/2 thru 3 Hp	**230 VAC**	**1 Phase - 50/60 Hz**
1/2 thru 5 Hp	**230 VAC**	**3 Phase - 50/60 Hz**
1 thru 10 Hp	**460 VAC**	**3 Phase - 50/60 Hz**

Applications: Applications that require a washdown or harsh duty enclosure. Ideal for environments where dust, oil mist or water is prevalent. Variable torque, constant torque or constant horsepower applications. Target stand alone applications where a local disconnect is required. New installations, replacements and original equipment manufactures (OEM).

Features: Volts per Hertz Control with peak overload capacity of 175%. Flexible mounting options NEMA 4X (Indoor) Input Disconnect models and EMC Filter models. Integral keypad, operator interface and local speed control. Speed potentiometer and F-O-R switch on input disconnect models only. Basic set of less than forty programming parameters. Power ratings up to 10 Hp in 460V versions.

Performance Features	Control Modes	V/Hz
	Operator Interface Module	Integral Drive Mounted
	Display Lines	6-Character LED Display
	Programmable Preset Speeds	Four
	Analog Outputs	One (0-10 VDC)
	Auto Restart	Yes – Up to 5 attempts
	Frequency Avoidance	One Band
	Fault History	Last Four Faults
	Digital Inputs	Three Configurable Inputs
	Digital Inputs Type	Pull-Up
Drive Specifications	Analog Inputs: Two	0-10VDC or 4 to 20mA
	Relay Outputs: One	One Built-in Form C Relay
	Analog Outputs / Digital Output	0-10 VDC: One Analog Usable for Meter (Freq., Current, Voltage) or Digital Output
	Maximum Load	10 Hp @ 460 VAC
	Overload Capacity	Drive Output 150% for one minute and 175% for 2 seconds
	Input Voltage Ranges	115 VAC (99-126); 230 VAC (198-264); 460 VAC (342-528)
	Rated Input Frequency	50-60Hz (±5%)
	Carrier Frequency	4-32 kHz (8 kHz default)
	Operating Temperature	–10° to 40°C
	Snubber (Dynamic Braking)	Built-in Transistor on Frames 2 and 3 only
	Dynamic Braking External	Up to 150% Dynamic Braking with appropriately sized resistor
	DC Injection Braking	Included
	Volts/Hz	Linear V/Hz, Energy Optimizer Function
	Frequency Control Range	0 - 500Hz
	Accel/Decel	Independently adjustable accel. & decel. ramps
	Time Range	0.1 to 600.0 Seconds
	Keypad Speed Control	Yes
	Sink/Source Inputs	Selectable, 24 VDC Logic
	Electronic Overload Trip	Electronic Motor Overload Inverse 150% for 1 minute or 175% for 2
	Communications	Built-in MODBUS-RTU (RS-485) Communications
	PI Control	Built-in
Protective Features	Under Voltage	Level Depends on Voltage Class (240, 480, or 575)
	Output Short Circuit	Phase-to-Phase on Drive Output
	Over Temperature	Heatsink Monitor
	DC Bus Overvoltage	DC Bus Level Trip
	Drive Overload	Exceed Drive rating of 150% for One Minute or 175% for 2 seconds
	Over Current	Over-current/short-Circuit protection
	Output Phase	Trips on open Output Phase
	Loss of Reference	Trips on Loss of Speed Command Signal
	Comm. Error	Detects a communication error (fault)
Agency Certifications		UL, cUL, CE, CCC, C-tick
Service Conditions	Altitude	1,000 m (3,300 ft.), derate by 1% per 100m up to 2,000m maximum
	Ambient Temperature	-10°C (14°F) to 40°C (102°F)
	Storage Temperature	-40°C (-40°F) to 60°C (140°F)
	Relative Humidity	10% to 95%, non-condensing
	Intermittent Overload	150% overload capacity for up to 1 minute, 175% overload capacity for up to 2 seconds

VS1MX – 115V, 50/60 Hz, 1-Phase Input (230V, 3-Phase Output) – NEMA 4X/12 (White Enclosure) **

Catalog Number	Disconnect *	Frame	Hp	Output Current
VS1MX10P5-4	No	A	0.5	2.3
VS1MX10P5-4D	Yes	A	0.5	2.3
VS1MX11-4	No	A	1	4.3
VS1MX11-4D	Yes	A	1	4.3
VS1MX11P5-4T	No	B	1.5	5.8
VS1MX11P5-4TD	Yes	B	1.5	5.8

VS1MX – 230V, 50/60 Hz, 1-Phase Input (230V, 3-Phase Output) – NEMA 4X/12 (White Enclosure) **

Catalog Number	Disconnect *	Frame	Hp	Output Current
VS1MX80P5-4	No	A	0.5	2.3
VS1MX80P5-4D	Yes	A	0.5	2.3
VS1MX81-4	No	A	1	4.3
VS1MX81-4D	Yes	A	1	4.3
VS1MX82-4	No	A	2	7
VS1MX82-4D	Yes	A	2	7
VS1MX82-4T	No	B	2	7
VS1MX82-4TD	Yes	B	2	7
VS1MX83-4T	No	B	3	10.5
VS1MX83-4TD	Yes	B	3	10.5

NOTE: For EMC filtered units, refer to catalog CA769 (Baldor Drives and Capabilities).
* Disconnect models include speed potentiometer and F-O-R switch.
** Indoor

VS1MX – 230V, 50/60 Hz, 3-Phase Input (230V, 3-Phase Output) – NEMA 4X/12 (White Enclosure) **

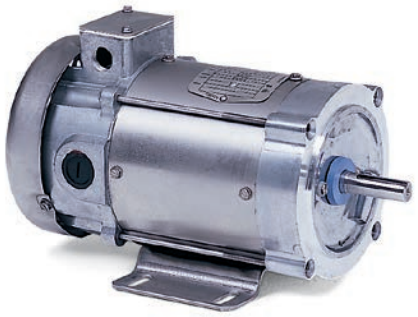
Catalog Number	Disconnect *	Frame	Hp	Output Current
VS1MX20P5-4	No	A	0.5	2.3
VS1MX20P5-4D	Yes	A	0.5	2.3
VS1MX21-4	No	A	1	4.3
VS1MX21-4D	Yes	A	1	4.3
VS1MX22-4	No	A	2	7
VS1MX22-4D	Yes	A	2	7
VS1MX22-4T	No	B	2	7
VS1MX22-4TD	Yes	B	2	7
VS1MX23-4T	No	B	3	10.5
VS1MX23-4TD	Yes	B	3	10.5
VS1MX25-4T	No	C	5	18
VS1MX25-4TD	Yes	C	5	18

VS1MX – 460V, 50/60 Hz, 3-Phase Input (460V, 3-Phase Output) – NEMA 4X/12 (White Enclosure) **

Catalog Number	Disconnect *	Frame	Hp	Output Current
VS1MX41-4	No	A	1	2.2
VS1MX41-4D	Yes	A	1	2.2
VS1MX42-4	No	A	2	4.1
VS1MX42-4D	Yes	A	2	4.1
VS1MX42-4T	No	B	2	4.1
VS1MX42-4TD	Yes	B	2	4.1
VS1MX43-4T	No	B	3	5.8
VS1MX43-4TD	Yes	B	3	5.8
VS1MX45-4T	No	B	5	9.5
VS1MX45-4TD	Yes	B	5	9.5
VS1MX47-4T	No	C	7.5	14
VS1MX47-4TD	Yes	C	7.5	14
VS1MX410-4T	No	C	10	18
VS1MX410-4TD	Yes	C	10	18

NOTE: For EMC filtered units, refer to catalog CA769 (Baldor Drives and Capabilities).
* Disconnect models include speed potentiometer and F-O-R switch.
** Indoor

Paint-Free SCR Drive Permanent Magnet DC Motors



In DC motor applications where caustic cleaning solutions and regular high-pressure wash downs may compromise the surface of a painted motor, Baldor offers Paint-Free DC motors. These motors have the same reliability-enhancing features as Baldor's Washdown Duty DC motors.

Performance Data: TEFC - Totally Enclosed Fan Cooled, 1/4 through 1 Hp

Hp	kW	RPM	Frame	Catalog No.	Voltage Direct Current Armature	Full Load Amperage Armature	Constant Torque Speed Range	Bearing		"C" Dim.	Conn. Diagram
								DE	ODE		
0.25	0.18	1750	56C	**CDPSWD3410**	90	2.7	20:1	6203	6203	12.16	CD0194
0.5	0.37	1750	56C	**CDPSWD3430**	90	5.2	20:1	6203	6203	13.66	CD0194
1	0.75	1750	56C	**CDPSWD3545**	90	9.6	20:1	6205	6205	16.30	CD0194
0.25	0.18	1750	56C	**CDPSWD3406**	180	1.3	20:1	6203	6203	12.16	CD0194
0.5	0.37	1750	56C	**CDPSWD3426**	180	2.5	20:1	6203	6203	13.60	CD0194
1	0.75	1750	56C	**CDPSWD3555**	180	4.9	20:1	6205	6205	16.30	CD0194

NOTE: See page 39 for dimension drawing. See page 45 for Connection Diagram.

Washdown Duty SCR Drive Permanent Magnet DC Motors

These DC motors are suited for food processing conveyor and feeder applications that are exposed to high-pressure washdowns. Reliability-enhancing features include: Moisture sealant on bolt heads between the frame and endplates; neoprene gasket on conduit box; double sealed ball bearings; Forsheda running contact V-ring slinger; stainless steel shaft. These motors are adaptable for use with tachometers. If closed loop operation is desired, use with Baldor Washdown Duty tachometers and tach mounting kits.

Performance Data: TENV - Totally Enclosed Non-Vented and TEFC - Totally Enclosed Fan Cooled, 1/4 through 5 Hp

Hp	kW	RPM	Frame	Encl.	Catalog No.	Voltage Direct Current Armature	Full Load Amperage Armature	Constant Torque Speed Range	Bearing		"C" Dim.	Conn. Diagram
									DE	ODE		
0.25	0.18	1750	56C	TENV	**CDPWD3310**	90	2.5	20:1	6203	6203	12.25	CD0194
0.33	0.25	1750	56C	TENV	**CDPWD3320**	90	3.2	20:1	6203	6203	13.19	CD0194
0.5	0.37	1750	56C	TENV	**CDPWD3330**	90	4.8	20:1	6203	6203	14.94	CD0194
0.75	0.56	1750	56C	TEFC	**CDPWD3440**	90	7.6	20:1	6203	6203	14.59	CD0194
1	0.75	1750	56C	TEFC	**CDPWD3445**	90	10.0	20:1	6203	6203	15.46	CD0194
0.25	0.18	1750	56C	TENV	**CDPWD3306**	180	1.25	20:1	6203	6203	12.25	CD0194
0.33	0.25	1750	56C	TEFC	**CDPWD3316**	180	1.6	20:1	6203	6203	13.19	CD0194
0.5	0.37	1750	56C	TEFC	**CDPWD3326**	180	2.5	20:1	6203	6203	14.94	CD0194
0.75	0.56	1750	56C	TEFC	**CDPWD3436**	180	3.7	20:1	6203	6203	14.59	CD0194
1	0.75	1750	56C	TEFC	**CDPWD3455**	180	5.0	20:1	6203	6203	15.46	CD0194
1.5	1.1	1750	145TC	TEFC	**CDPWD3575**	180	7.7	20:1	6205	6205	17.17	CD0194
2	1.5	1750	145TC	TEFC	**CDPWD3585**	180	9.6	20:1	6205	6205	18.17	CD0194
3	2.2	1750	184TC	TEFC	**CDPWD3603**	180	14.0	20:1	6206	6206	24.33	CD0194
5	3.7	1750	1810ATC	TEFC	**CDPWD3605**	180	24.5	20:1	6206	6206	27.83	CD0194

NOTE: See page 39 for dimension drawing. See page 45 for Connection Diagram.
Data subject to change without notice. Contact Baldor for certified data.

NEMA 4X Washdown Duty DC SCR Controls

Baldor offers several models of Washdown Duty DC controls, all in NEMA 4X enclosures. Models include Line Regen and PMW versions. Baldor also offers a variety of Washdown Duty Control accessories, including brake-reverse kits, a run/jog switch, an auto/manual installation kit and an AC line switch kit.

BC154, BCWD140 and BC160 are one-way controls with reversal by means of switching the armature leads (BCWD140 has a forward/break/reverse switch mounted). BC254 is a line regenerative SCR control that can drive the motor to a timed stop. BC354 is a PWM control that provides low-ripple DC power to the motor allowing more Hp when used with a 140 or 280 VDC motor. All offer a choice of armature or tachometer feedback and a speed or torque mode. Output current is jumper selectable. BC154, BC160, BC254 and BC354 are painted black and come with a start-stop switch. BCWD140 comes with white epoxy paint and also forward/break/reverse and run-jog switches.

115/230 Volt, Single Phase

Hp Range	Catalog Number	Description Input Voltage / Max. Hp	Ap'x. Shpg. Wgt.
NEMA 4X SCR (black)			
1/4-2	BC154	Standard model - 120V - 1 Hp, 230V - 2 Hp	5
	BC154-P	BC154 with POWER SWITCH instead of START/STOP SW.	5
	BC154-R	BC154 with BC156 - FBR Switch factory installed	5
	BC154-SI	BC154 with BC145 Signal Isolator Board and BC158 Auto/Man. Switch kit factory installed	5
3	BC160	120V - 1.5 Hp, 230V - 3 Hp	3
NEMA 4X Washdown Duty (white)			
1/4-2	BCWD140	120V - 1 Hp, 230V - 2 Hp	6
NEMA 4X Washdown Duty Line Regen SCR (black)			
1/8-2	BC254	120V - 1 Hp, 230V - 2 Hp	5
	BC254-FBR	BC254 with BC253 FWD-BRAKE-REV switch factory installed	
NEMA 4X Washdown Duty PWM DC (black)			
1/4-2	BC354	120V - 1 Hp, 230V - 2 Hp	5

NOTE: BC354 - Output current is 7.5 amps; Output voltage is 130VDC for 115VAC input - 260VDC for 230VAC input. Motors designed for these voltages will give the best performance.

115/230 Volt, Single Phase

Catalog Number	Description	
BC153	Electronic Forward-Dynamic Brake-Reverse Kit for BC154, BC354	1
BC156	Mechanical Forward-Dynamic Brake-Reverse Switch for BC154, BC354	1
BC157	Run/Jog Switch for BC154, BC160 & BC354	1
BC158	Auto/Manual Installation Kit for BC145 signal isolator for BC154, BC160 & BC354	1
BC159	AC Line Switch Kit for BC154, BCWD140, BC254 & BC354	1
BC145	Signal Isolator Board	1

NOTE: BC159 AC Line Switch Kit is factory installed on BC154, BCWD140 & BC354. Listed here as replacement or spare parts.

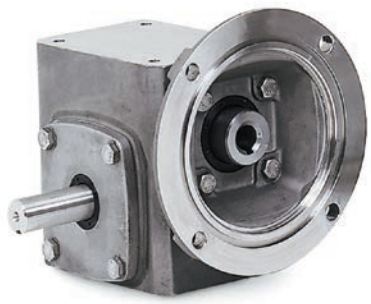
Washdown Tachometers

When looking to improve regulation of a Washdown Duty SCR motor control under varying speed and load conditions, Baldor Washdown Tachometers provide basic motor feedback. Two models of tachs are available from stock, both with washdown IP65 enclosures. Tach mounting kits are also available from Baldor.

DC Tach Generators Motor, PY Flange Mounting

Catalog Number	Type	Voltage	Weight LBS.
PTGWD50XPS	XPYII	50 VDC/1000 RPM	10
PTGWD100XPS	XPYII	100 VDC/1000 RPM	10

Stainless Steel Right Angle, Quill Type Solid Shaft Gear Reducer



These stainless steel, solid shaft reducers are designed for applications where use of caustic cleaning solutions and regular high-pressure wash downs may compromise the surface of a painted gear reducer. They are ideal for food, pharmaceutical or chemical processing.

Features include: Housings, output shaft & hardware are stainless steel to endure hostile environments. The new totally enclosed, vent-less, o-ring sealed system is pre-filled with Klubersynth UH1-6-460 synthetic lubricant. The lubricant accommodates a wide range of operating temperatures and runs cooler than other popular synthetics, providing maintenance-free lubed for life operation. In addition, it is suitable for food grade (H1) applications. Units are also BISSC certified (Baking Industry Sanitation Standards Committee).

Solid Shaft Reducers

Nominal Output RPM @ 1750 RPM In	Gear Ratio	Continuous Duty™ Output Torque (In-Lbs) Based on 1750 RPM Motor									Max Input Hp	Max Output Torque Rating In-Lbs	NEMA Motor Mount	Style Number	Catalog Number	Ap'x Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5						
350	5:1					160	240	320			2.00	320	56C	SSF-918-05-B5-G	**SSGF0518AG**	30
						160	240	320			2.00	320	140TC	SSF-918-05-B7-G	**SSGF0518BG**	30
							246	327	491		3.14	514	140TC	SSF-921-05-B7-G	**SSGF0521BG**	35
								339	508	847	5.43	919	140TC	SSF-926-05-B7-G	**SSGF0526BG**	65
175	10:1				214	285	428				1.50	428	56C	SSF-918-10-B5-G	**SSGF1018AG**	30
					214	285	428				1.50	428	140TC	SSF-918-10-B7-G	**SSGF1018BG**	30
						312	468	624			2.02	630	140TC	SSF-921-10-B7-G	**SSGF1021BG**	35
								655	983		3.59	1177	140TC	SSF-926-10-B7-G	**SSGF1026BG**	65
117	15:1			209	314	419					1.07	448	56C	SSF-918-15-B5-G	**SSGF1518AG**	30
				246	369	492					1.35	664	56C	SSF-921-15-B5-G	**SSGF1521AG**	35
						473	710	947			2.58	1225	140TC	SSF-926-15-B7-G	**SSGF1526BG**	65
88	20:1		165	251	376						0.92	461	56C	SSF-918-20-B5-G	**SSGF2018AG**	30
				212	484	645					1.06	684	56C	SSF-921-20-B5-G	**SSGF2021AG**	35
						609	913	1218			2.15	1308	140TC	SSF-926-20-B7-G	**SSGF2026BG**	65
70	25:1		183	277	416						0.80	444	56C	SSF-918-25-B5-G	**SSGF2518AG**	30
			250	379	569						0.89	675	56C	SSF-921-25-B5-G	**SSGF2521AG**	35
					567	756	1134				1.73	1307	140TC	SSF-926-25-B7-G	**SSGF2526BG**	65
58	30:1		216	327							0.72	470	56C	SSF-918-30-B5-G	**SSGF3018AG**	30
			275	416	624						0.83	691	56C	SSF-921-30-B5-G	**SSGF3021AG**	35
					641	854	1281				1.54	1313	140TC	SSF-926-30-B7-G	**SSGF3026BG**	56
44	40:1	180	238	360							0.64	461	56C	SSF-918-40-B5-G	**SSGF4018AG**	30
			340	515							0.66	680	56C	SSF-921-40-B5-G	**SSGF4021AG**	35
				524	786	1049					1.23	1296	140TC	SSF-926-40-B7-G	**SSGF4026BG**	56
35	50:1	222	294								0.49	436	56C	SSF-918-50-B5-G	**SSGF5018AG**	30
		280	370	561							0.58	651	56C	SSF-921-50-B5-G	**SSGF5021AG**	35
				621	932	1242					1.00	1242	56C	SSF-926-50-B5-G	**SSGF5026AG**	60
29	60:1	220	290								0.47	413	56C	SSF-918-60-B5-G	**SSGF6018AG**	30
		317	418	634							0.50	634	56C	SSF-921-60-B5-G	**SSGF6021AG**	35
			473	716	1074						0.82	1166	56C	SSF-926-60-B5-G	**SSGF6026AG**	56

NOTE:
- Service Class I Torque Ratings
- Service Class II Torque Ratings
- Service Class III Torque Ratings

NOTE: See page 42 for dimension drawing.
See page 27 for optional Stainless Steel bases.
Data subject to change without notice. Contact Baldor for certified data.

Stainless Steel Right Angle, Quill Type Hollow Shaft Gear Reducer

These stainless steel, hollow bore reducers are designed for applications where use of caustic cleaning solutions and regular high-pressure wash downs may compromise the surface of a painted gear reducer. They are ideal for food, pharmaceutical or chemical processing.

Features include: Housings, output shaft & hardware are stainless steel to endure hostile environments. The new totally enclosed, vent-less, o-ring sealed system is pre-filled with Klubersynth UH1-6-460 synthetic lubricant. The lubricant accommodates a wide range of operating temperatures and runs cooler than other popular synthetics, providing maintenance-free lubed for life operation. In addition, it is suitable for food grade (H1) applications. Units are also BISSC certified (Baking Industry Sanitation Standards Committee).

Hollow Bore Gear Reducers

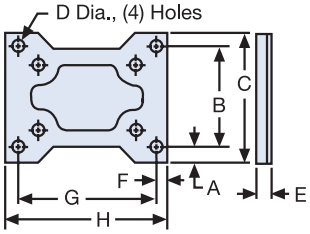
Nominal Output RPM @ 1750 RPM In	Gear Ratio	Continous Duty™ Output Torque (In-Lbs) Based on 1750 RPM Motor									Max Input Hp	Max Output Torque Rating In-Lbs	NEMA Motor Mount	Style Number	Catalog Number	Ap'x Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5						
350	5:1					160	240	320			2.00	320	56C	SSHF-918-05-B5-H	SSGHF0518AH	30
175	10:1				214	285	428				1.50	428	56C	SSHF-918-10-B5-H	SSGHF1018AH	30
						312	468	624			2.20	630	56C	SSHF-921-10-B5-H	SSGHF1021AH	38
									990	1649	6.36	2106	180TC	SSHF-932-10-B9-H	SSGHF1032CH	92
117	15:1			209	314	419					1.07	448	56C	SSHF-918-15-B5-H	SSGHF1518AH	30
				246	369	492					1.35	664	56C	SSHF-921-15-B5-H	SSGHF1521AH	38
								959	1438		4.66	2241	180TC	SSHF-932-15-B9-H	SSGHF1532CH	92
88	20:1		165	251	376						0.92	461	56C	SSHF-918-20-B5-H	SSGHF2018AH	30
				323	484	645					1.06	684	56C	SSHF-921-20-B5-H	SSGHF2021AH	38
						609	913	1218			2.15	1309	56C	SSHF-926-20-B5-H	SSGHF2026AH	60
							924	1232	1848		3.85	2283	180TC	SSHF-932-20-B9-H	SSGHF2032CH	92
58	30:1		216	327							0.72	470	56C	SSHF-918-30-B5-H	SSGHF3018AH	30
			275	416	624						0.83	691	56C	SSHF-921-30-B5-H	SSGHF3021AH	38
					641	854	1281				1.54	1313	56C	SSHF-926-30-B5-H	SSGHF3026AH	60
						881	1322	1763			2.81	2482	140TC	SSHF-932-30-B7-H	SSGHF3032BH	92
44	40:1	180	238	360							0.64	461	56C	SSHF-918-40-B5-H	SSGHF4018AH	30
			340	515							0.66	680	56C	SSHF-921-40-B5-H	SSGHF4021AH	38
				524	786	1049					1.23	1296	56C	SSHF-926-40-B5-H	SSGHF4026AH	60
				524	786	1049					1.23	1296	140TC	SSHF-926-40-B7-H	SSGHF4026BH	60
						1180	1620	2160			2.20	2374	140TC	SSHF-932-40-B7-H	SSGHF4032BH	92
35	50:1	222	294								0.49	436	56C	SSHF-918-50-B5-H	SSGHF5018AH	30
		280	370	561							0.58	651	56C	SSHF-921-50-B5-H	SSGHF5021AH	38
				621	932	1242					1.00	1242	56C	SSHF-926-50-B5-H	SSGHF5026AH	57
					958	1278	1917				1.83	2366	140TC	SSHF-932-50-B7-H	SSGHF5032BH	92
29	60:1	220	290								0.47	413	56C	SSHF-918-60-B5-H	SSGHF6018AH	30
		317	418	634							0.50	634	56C	SSHF-921-60-B5-H	SSGHF6021AH	38
			473	716	1074						0.82	1166	56C	SSHF-926-60-B5-H	SSGHF6026AH	60
					1100	1467	2200				1.54	2255	140TC	SSHF-932-60-B7-H	SSGHF6032BH	65

NOTE:
- Service Class I Torque Ratings
- Service Class II Torque Ratings
- Service Class III Torque Ratings

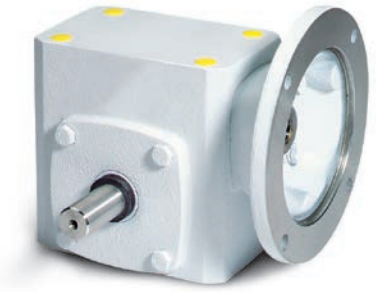
NOTE: See page 43 for dimension drawing.
Data subject to change without notice. Contact Baldor for certified data.

Optional Stainless Steel Base Kits

Base	Size	Catalog Number	Weight	A	B	C	D	E	F	G	H
Horiz	918 (A,B)	**SSB18H71**	5	0.62	4.50	5.56	0.44	0.69	0.62	5.75	7.00
Horiz	921 (A,B)	**SSB21H71**	10	0.66	4.69	5.76	0.50	0.72	0.66	6.38	7.69
Horiz	926 (A,B)	**SSB26H71**	13	0.63	5.25	6.50	0.56	0.75	0.63	8.00	9.25



Washdown Right Angle, Quill Type Solid Shaft Gear Reducer



These solid shaft gear reducers are great for food processing and other applications where the unit is exposed to regular, high-pressure washdowns.

Features include: Cast iron housing is coated with an FDA approved epoxy for corrosion prevention. Output shaft & hardware are stainless steel to endure caustic washdown environments. The new totally enclosed, vent-less, o-ring sealed system is pre-filled with Klubersynth UH1-6-460 synthetic lubricant. The lubricant accommodates a wide range of operating temperatures and runs cooler than other popular synthetics, providing maintenance-free lubed for life operation. In addition, it is suitable for food grade (H1) applications. Units are also BISSC certified (Baking Industry Sanitation Standards Committee).

Nominal Output RPM @ 1750 RPM In	Gear Ratio	Continuous Duty™ Output Torque (In-Lbs) Output Based on 1750 RPM Motor							Max Input Hp	Max Torque Rating In-Lbs	NEMA Motor Mount	Style Number	Catalog Number	Ap'x Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2						
350	5:1					160	240	320	2.00	320	56C	WDF-918-05-B5-G	**WDGF0518AG**	30
175	10:1		82	125	187				0.90	225	56C	WDF-913-10-B5-G	**WDGF1013AG**	20
				141	211	282			1.03	290	56C	WDF-915-10-B5-G	**WDGF1015AG**	25
				141	211	282			1.03	290	140TC	WDF-915-10-B7-G	**WDGF1015BG**	25
					214	285	428		1.50	428	56C	WDF-918-10-B5-G	**WDGF1018AG**	30
						312	468	624	2.20	630	56C	WDF-921-10-B5-G	**WDGF1021AG**	35
						317	475	634	2.73	893	140TC	WDF-924-10-B7-G	**WDGF1024BG**	40
117	15:1	89	118	179					0.66	225	56C	WDF-913-15-B5-G	**WDGF1513AG**	20
			127	193	289				0.81	312	56C	WDF-915-15-B5-G	**WDGF1515AG**	25
				209	314	419			1.07	448	56C	WDF-918-15-B5-G	**WDGF1518AG**	30
				246	369	492			1.35	664	56C	WDF-921-15-B5-G	**WDGF1521AG**	35
						470	705	939	2.11	992	56C	WDF-924-15-B5-G	**WDGF1524AG**	40
88	20:1	113	149	226					0.53	239	56C	WDF-913-20-B5-G	**WDGF2013AG**	20
		128	169	256					0.62	317	56C	WDF-915-20-B5-G	**WDGF2015AG**	25
			165	251	376				0.92	461	56C	WDF-918-20-B5-G	**WDGF2018AG**	30
						609	913	1218	2.15	1309	140TC	WDF-926-20-B7-G	**WDGF2026BG**	52
58	30:1		216	327					0.72	470	56C	WDF-918-30-B5-G	**WDGF3018AG**	30
			275	416	624				0.83	691	56C	WDF-921-30-B5-G	**WDGF3021AG**	35
				420	630	840			1.32	111	56C	WDF-924-30-B5-G	**WDGF3024AG**	40
					641	854	1281		1.54	1313	56C	WDF-926-30-B5-G	**WDGF3026AG**	55
						881	1322	1763	2.81	2462	140TC	WDF-932-30-B7-G	**WDGF3032BG**	87

NOTE:
- Service Class I Torque Ratings
- Service Class II Torque Ratings
- Service Class III Torque Ratings

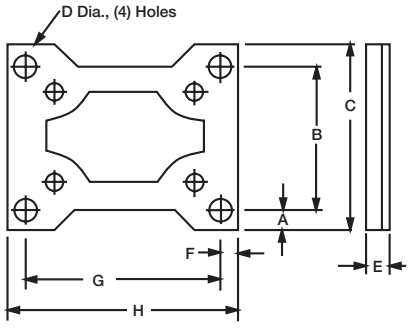
NOTE: See page 41 for dimension drawing.
Data subject to change without notice. Contact Baldor for certified data.

Washdown Right Angle, Quill Type Gear Reducer continued...

Nominal Output RPM @ 1750 RPM In	Gear Ratio	Continuous Duty™ Output Torque (In-Lbs) Output Based on 1750 RPM Motor							Max Input Hp	Max Torque Rating In-Lbs	NEMA Motor Mount	Style No.	Catalog No.	Ap'x Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2						
44	40:1	208	275						0.44	317	56C	WDF-915-40-B5-G	**WDGF4015AG**	25
		180	238	360					0.64	461	56C	WDF-918-40-B5-G	**WDGF4018AG**	30
			340	515					0.66	680	56C	WDF-921-40-B5-G	**WDGF4021AG**	35
				521	781				0.99	1030	56C	WDF-924-40-B5-G	**WDGF4024AG**	40
				524	786	1049			1.23	1296	56C	WDF-926-40-B5-G	**WDGF4026AG**	55
						1081	1622	2163	2.20	2374	140TC	WDF-932-40-B7-G	**WDGF4032BG**	87
35	50:1	177	234						0.33	234	56C	WDF-913-50-B5-G	**WDGF5013AG**	20
		230	303						0.33	303	56C	WDF-915-50-B5-G	**WDGF5015AG**	25
		280	370	561					0.58	651	56C	WDF-921-50-B5-G	**WDGF5021AG**	35
			401	608	912				0.83	1014	56C	WDF-924-50-B5-G	**WDGF5024AG**	40
				621	932	1242			1.00	1242	56C	WDF-926-50-B5-G	**WDGF5026AG**	55
					958	1278	1917		1.83	2366	140TC	WDF-932-50-B7-G	**WDGF5032BG**	92
29	60:1	218	288						0.33	288	56C	WDF-915-60-B5-G	**WDGF6015AG**	25
		220	290						0.47	413	56C	WDF-918-60-B5-G	**WDGF6018AG**	30
		317	418	634					0.50	634	56C	WDF-921-60-B5-G	**WDGF6021AG**	35
			458	693					0.69	956	56C	WDF-924-60-B5-G	**WDGF6024AG**	40
			473	716	1074				0.82	1166	56C	WDF-926-60-B5-G	**WDGF6026AG**	55
					1100	1467	2200		1.54	2255	56C	WDF-932-60-B5-G	**WDGF6032AG**	92

NOTE: Service Class I Torque Ratings
Service Class II Torque Ratings
Service Class III Torque Ratings

NOTE: Optional Shaft Positions, Base Installation and Motor Mounting available through Mod Express. Refer to a Baldor District Office for pricing and delivery.
See page 41 for dimension drawing.
Data subject to change without notice. Contact Baldor for certified data.



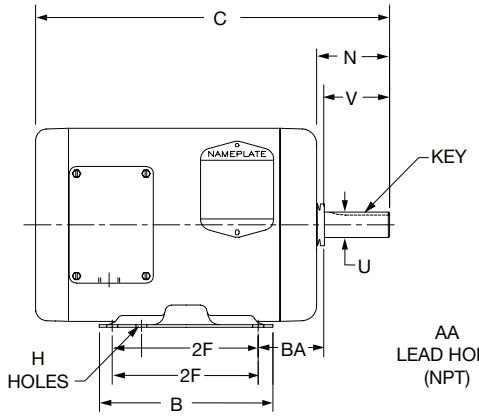
Optional Gear Reducer Base Kits

Base	Size (Position)	Catalog Number	A	B	C	D	E	F	G	H	Ap'x Wgt. Lbs.
Horiz.	913 (A,B)	**WDB13H71**	0.44	3.31	4.19	0.34	0.53	0.50	4.38	5.38	3
Horiz.	915 (A,B)	**WDB15H71**	0.57	4.31	5.44	0.41	0.60	0.60	5.25	6.44	4
Horiz.	918 (A,B)	**WDB18H71**	0.59	4.50	5.69	0.41	0.69	0.63	5.75	7.00	6
Horiz.	921 (A,B)	**WDB21H71**	0.63	4.69	5.94	0.47	0.72	0.9	6.38	7.75	6
Horiz.	924 (A,B)	**WDB24H71**	0.66	4.88	6.19	0.47	0.75	0.72	7.06	8.50	8
Horiz.	926 (A,B)	**WDB26H71**	0.70	5.25	6.66	0.53	0.75	0.81	8.00	9.63	9
Horiz.	930 (A,B)	**WDB30H71**	0.78	5.88	7.50	0.53	0.75	0.81	8.44	10.00	6
Horiz.	932 (A,B)	**WDB32H71**	0.77	6.13	7.66	0.53	0.88	0.84	9.50	11.19	13

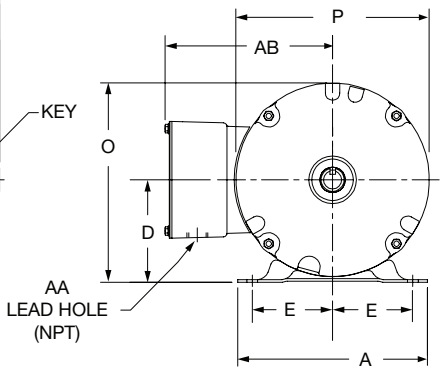
Dimension Drawings

Washdown NEMA 56 through 256TC

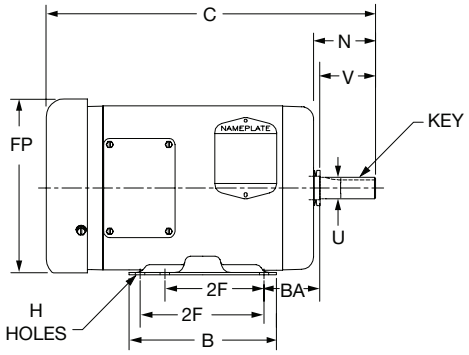
TENV Enclosure



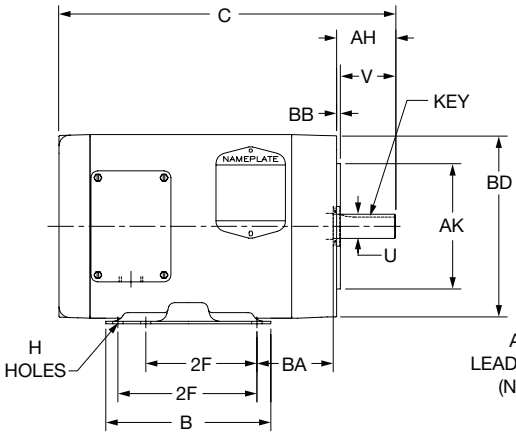
Base Mount



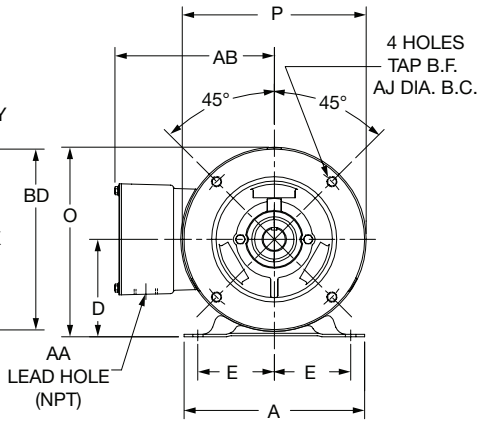
TEFC Enclosure



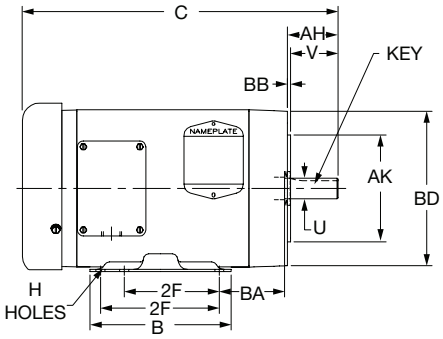
TENV Enclosure



C-face with or without Base



TEFC Enclosure



Catalog No. starting with "C" = C-face with base.
Catalog No. starting with "V" = C-face, no base.

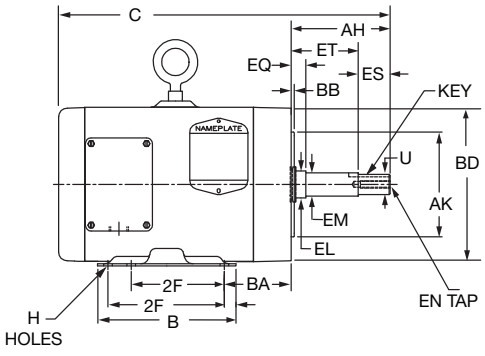
NEMA Frame	A	B	D	E	2F	H	N	O	P	U	V	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD
56	6.50	4.50	3.50	2.44	3.00	0.34	2.44	6.81	6.62	0.625	1.88	0.50	5.22	-	-	3/8-16	-	2.75	-	-
56C	6.50	4.50	3.50	2.44	3.00	0.34	-	6.81	6.62	0.625	1.88	0.50	5.22	2.06	5.88	3/8-16	4.50	2.75	0.12	6.50
143T	6.50	5.94	3.50	2.75	4.00	0.34	2.50	6.81	6.62	0.875	2.25	0.75	5.22	-	-	3/8-16	-	2.25	-	-
143TC	6.50	5.94	3.50	2.75	4.00	0.34	-	6.81	6.62	0.875	2.25	0.75	5.22	2.12	5.88	3/8-16	4.50	2.75	0.12	6.50
145T	6.50	5.94	3.50	2.75	5.00	0.34	2.50	6.81	6.62	0.875	2.25	0.75	5.22	-	-	3/8-16	-	2.25	-	-
145TC	6.50	5.94	3.50	2.75	5.00	0.34	-	6.81	6.62	0.875	2.25	0.75	5.22	2.12	5.88	3/8-16	4.50	2.75	0.12	6.50
182T	8.63	6.50	4.50	3.75	4.50	0.41	3.56	8.44	7.88	1.125	2.75	0.75	5.97	-	-	1/2-13	-	2.75	-	-
182TC	8.63	6.50	4.50	3.75	4.50	0.41	-	8.44	7.88	1.125	2.75	0.75	5.97	2.62	7.25	1/2-13	8.50	3.50	0.25	8.89
184T	8.63	6.50	4.50	3.75	5.50	0.41	3.56	8.44	7.88	1.125	2.75	0.75	5.97	-	-	1/2-13	-	2.75	-	-
184TC	8.63	6.50	4.50	3.75	5.50	0.41	-	8.44	7.88	1.125	2.75	0.75	5.97	2.62	7.25	1/2-13	8.50	3.50	0.25	8.89
213T	9.50	8.00	5.25	4.25	5.50	0.41	3.88	10.03	9.56	1.375	3.37	0.75	7.46	-	-	1/2-13	-	3.50	-	-
213TC	9.50	8.00	5.25	4.25	5.50	0.41	-	10.03	9.56	1.375	3.37	0.75	7.46	3.12	7.25	1/2-13	8.50	4.50	0.25	9.04
215T	9.50	8.00	5.25	4.25	7.00	0.41	3.88	10.03	9.56	1.375	3.37	0.75	7.46	-	-	1/2-13	-	3.50	-	-
215TC	9.50	8.00	5.25	4.25	7.00	0.41	-	10.03	9.56	1.375	3.37	0.75	7.46	3.12	7.25	1/2-13	8.50	4.50	0.25	9.04
254TC	11.25	9.50	6.25	5.00	8.25	0.53	-	12.00	11.50	1.625	4.00	1.25	8.99	3.75	7.25	1/2-13	8.50	4.75	0.25	9.44
256TC	11.25	11.25	6.25	5.00	10.00	0.53	-	12.00	11.50	1.625	4.00	1.25	8.99	3.75	7.25	1/2-13	8.50	4.75	0.25	9.44

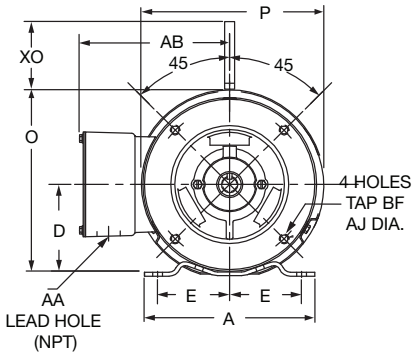
NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

Dimension Drawings

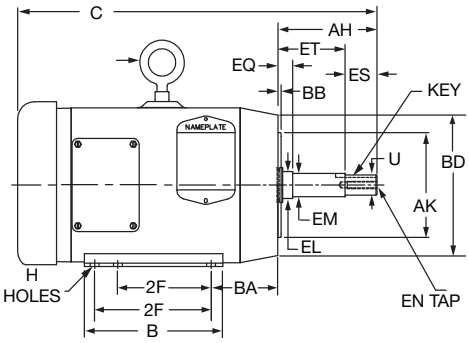
Washdown Duty Close-Coupled Pump
NEMA 143JM through 215JM

TENV Enclosure





TEFC Enclosure



NEMA Frame	A	B	D	E	2F	H	KEY	O	P	U	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD	XO
143JM	6.50	5.94	3.50	2.75	4.00	0.34	0.19	6.81	6.63	0.875	0.75	5.73	4.25	5.88	3/8-16	4.50	2.88	0.12	6.50	—
145JM	6.50	5.94	3.50	2.75	5.00	0.34	0.19	6.81	6.63	0.875	0.75	5.73	4.25	5.88	3/8-16	4.50	2.88	0.12	6.50	—
182JM	8.63	6.50	4.50	3.75	4.50	0.41	0.19	8.44	7.88	0.875	0.75	6.86	4.25	5.88	1/2-13	4.50	3.50	0.12	6.50	2.40
184JM	8.63	6.50	4.50	3.75	5.50	0.41	0.19	8.44	7.88	0.875	0.75	6.86	4.25	5.88	1/2-13	4.50	3.50	0.12	6.50	2.40
213JM	9.50	8.00	5.25	4.25	5.50	0.41	0.19	10.03	9.56	0.875	0.75	7.45	4.25	7.25	1/2-13	8.50	4.50	0.25	9.06	2.40
215JM	9.50	8.00	5.25	4.25	7.00	0.41	0.19	10.03	9.56	0.875	0.75	7.45	4.25	7.25	1/2-13	8.50	4.50	0.25	9.06	2.40

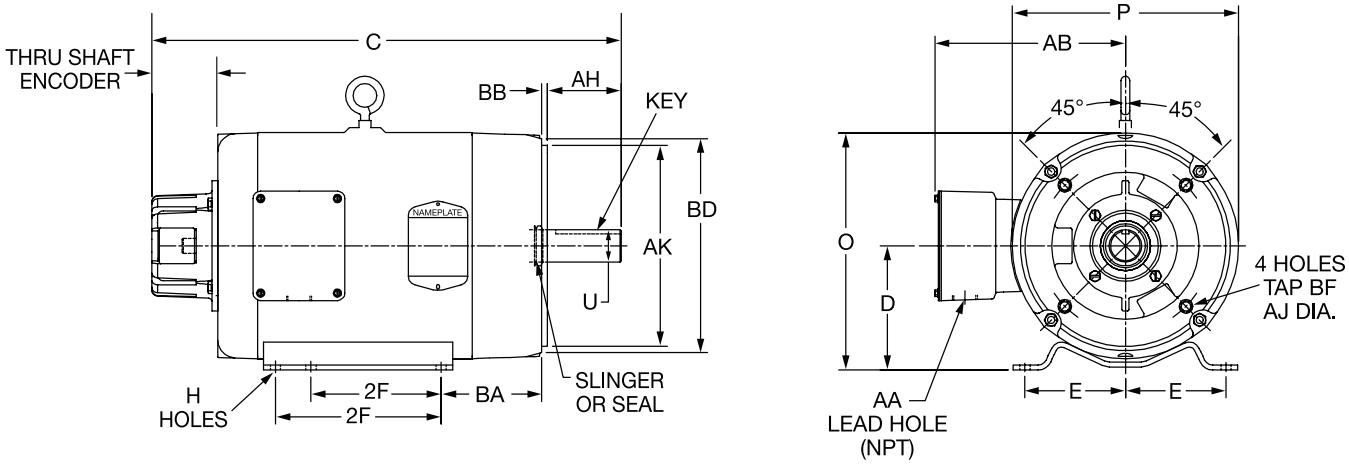
Washdown Closed-Coupled Pump Shaft Motors

NEMA Frame	EL	EM	EN	EQ	ES	ET
143JM	1.15	1.0	0.38-16 x 0.88	0.625	1.38	2.875
145JM	1.15	1.0	0.38-16 x 0.88	0.625	1.38	2.875
182JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
184JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
213JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875
215JM	1.25	1.0	0.38-16 x 0.88	0.625	1.38	2.875

NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

Dimension Drawings

Washdown Inverter and Vector Motors



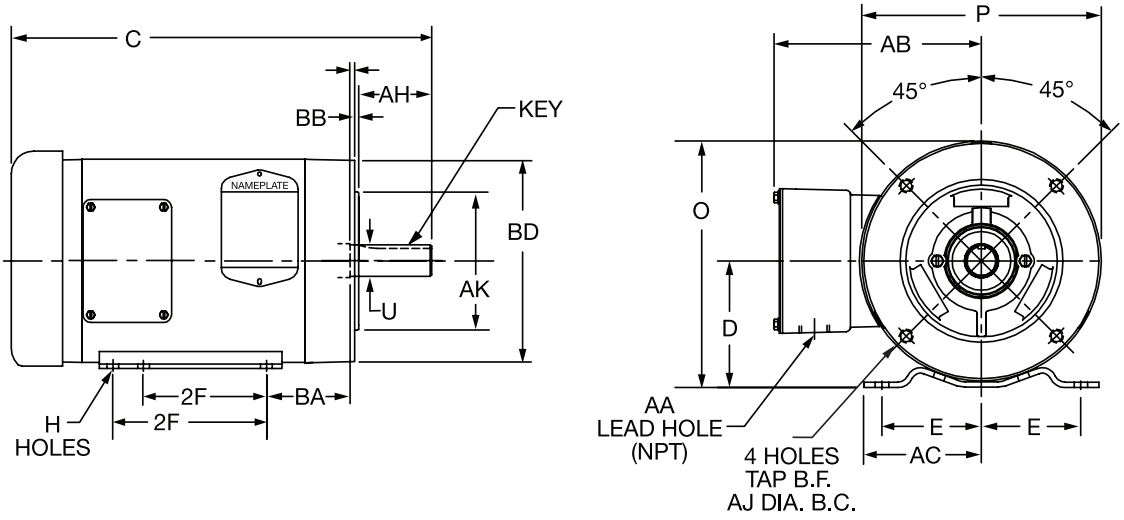
NEMA Frame	Thru Shaft Encoder	D	E	2F	H	AH	O	AB	BA	U	P	BD	AK	AJ	BF TAP	AA	BB
143TC	2.78	3.50	2.75	4.00	0.34	2.12	6.81	5.73	2.75	0.875	6.63	6.51	4.50	5.88	3/8-16	0.75	0.12
145TC				5.00													
182TC	2.78	4.50	3.75	4.50	0.41	2.62	8.44	6.87	3.50	1.125	7.88	8.86	8.50	7.25	1/2-13	0.75	0.25
184TC				5.50													
213TC	2.78	5.25	4.25	5.50	0.41	3.12	10.03	8.05	4.25	1.375	9.56	9.04	8.50	7.25	1/2-13	0.75	0.25
215TC				7.00													
254TC	1.79*	6.25	5.00	8.25	0.53	3.75	12.00	9.72	4.75	1.625	11.69	9.44	8.50	7.25	1/2-13	1.25	0.25
256TC				10.00													

NOTE: * 2.29 for Vector Motor.

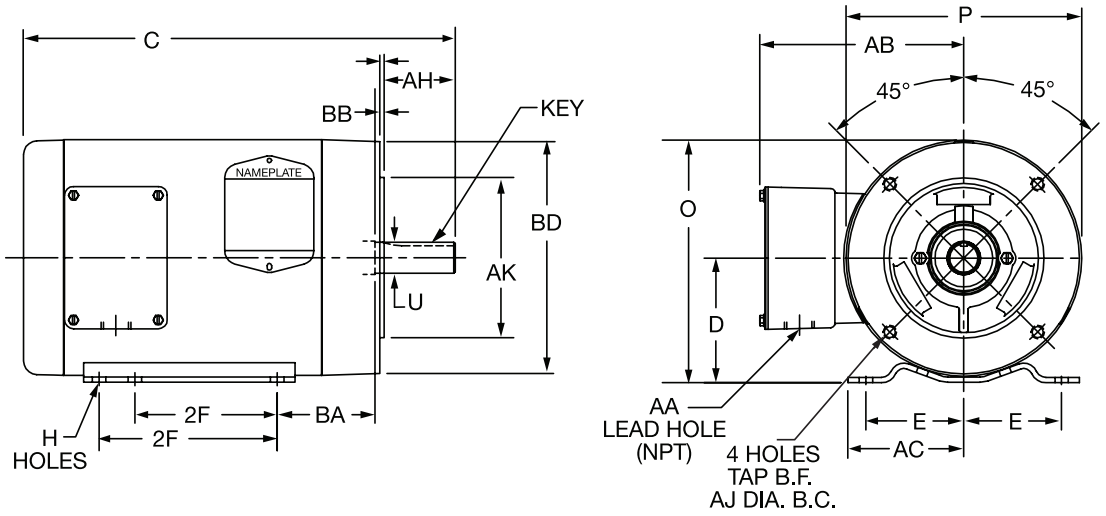
Dimension Drawings

Washdown Inverter – TEFC

TENV Enclosure



TEFC Enclosure

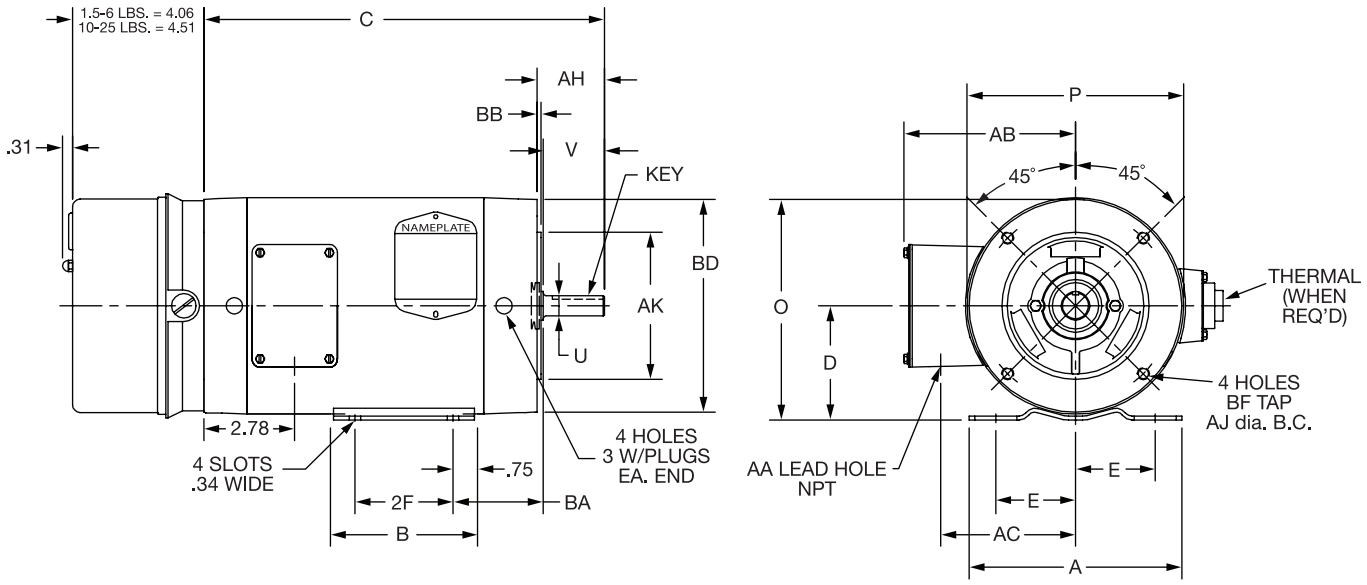


NEMA Frame	D	E	2F	H	AH	O	AB	BA	U	P	BD	AK	AJ	BF TAP	AA	BB
56C	3.50	2.44	3.00	0.34	2.06	6.81	5.73	2.75	0.625	6.62	6.50	4.50	5.88	3/8-16	0.50	0.12
143TC 145TC	3.50	2.75	4.00 5.00	0.38	2.12	6.81	5.73	2.75	0.875	6.62	6.50	4.50	5.88	3/8-16	0.75	0.12
182TC 184TC	4.50	3.75	4.50 5.50	0.41	2.62	9.00	6.56	3.5	1.125	8.50	8.86	8.50	7.25	1/2-13	0.75	0.25
213TC 215TC	5.25	4.25	5.50 7.00	0.41	3.12	10.03	7.46	4.25	1.375	10.18	9.04	8.50	7.25	1/2-13	0.75	0.25

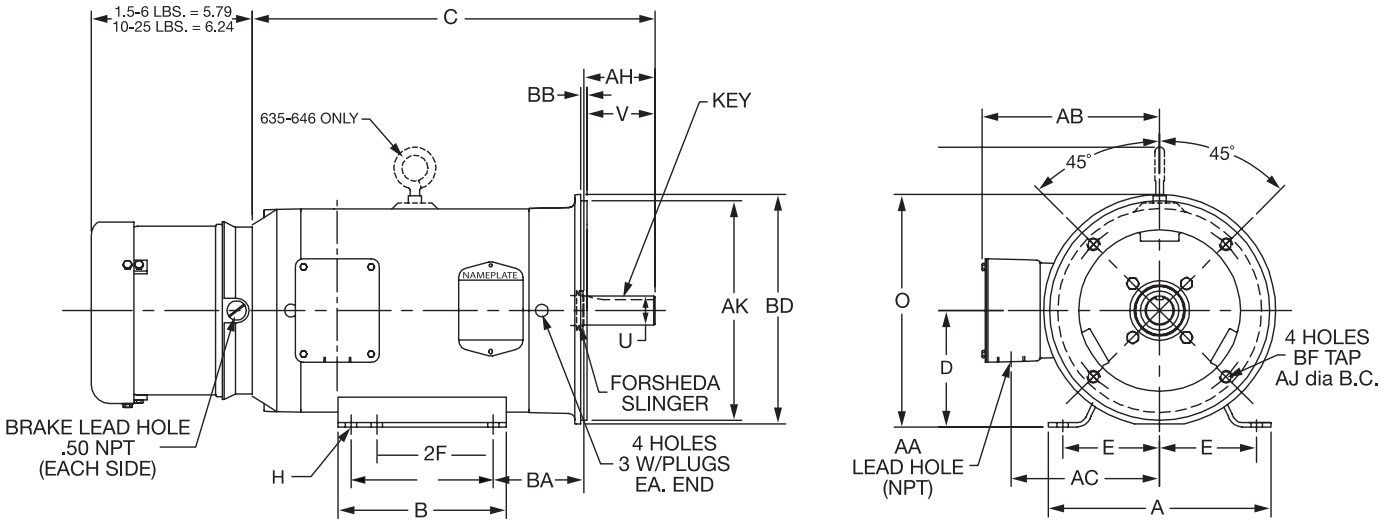
NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

Dimension Drawings

Washdown Super-E – Brake Motor – TENV – C-Face with Base 56C – 143-145TC

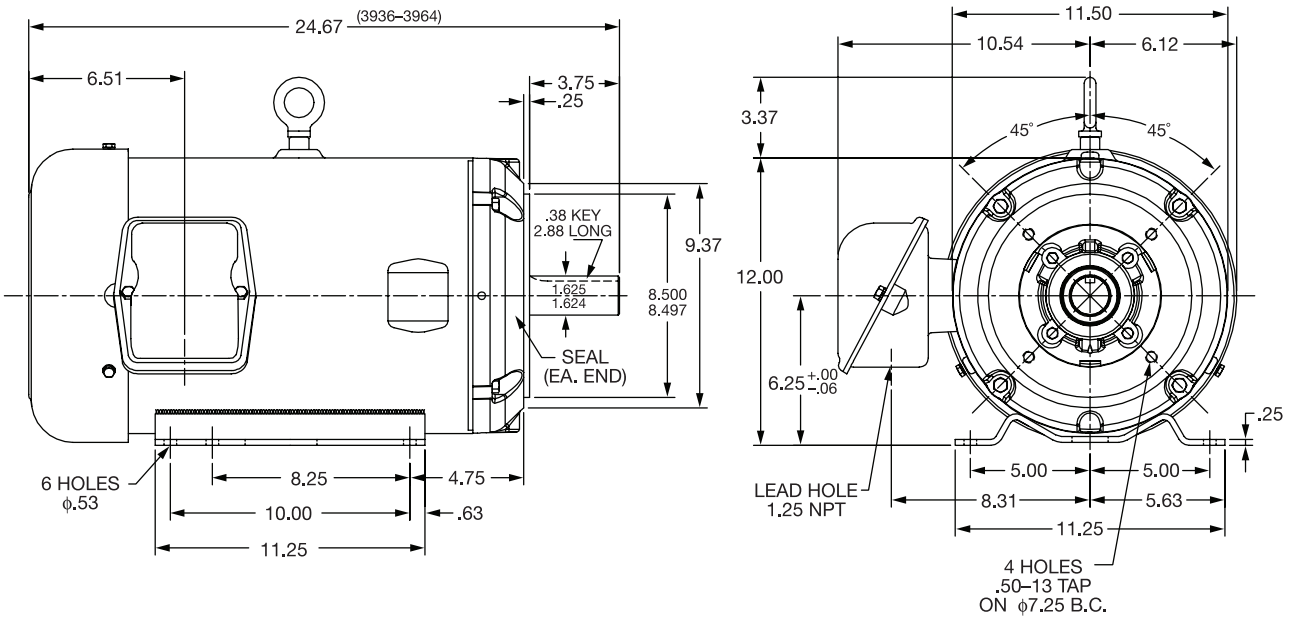


Washdown Super-E® – Brake Motor – TEFC – C-Face with Base 182-184TC – 254-256TC



Dimension Drawings

Stainless Steel Super-E – TEFC
254 - 256TC

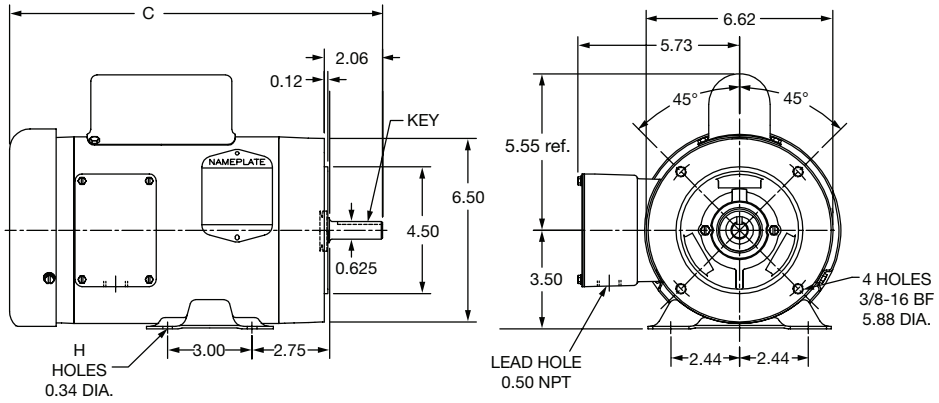


NEMA Frame	A	B	D	E	2F	H	N	O	P	U	V	AA	AB	AH	AJ	BF TAP	AK	BA	BB	BD
56	6.50	4.50	3.50	2.44	3.00	0.34	2.44	6.81	6.62	0.625	1.88	0.50	5.22	-	-	3/8-16	-	2.75	-	-
56C	6.50	4.50	3.50	2.44	3.00	0.34	-	6.81	6.62	0.625	1.88	0.50	5.22	2.06	5.88	3/8-16	4.50	2.75	0.12	6.50
143T	6.50	5.94	3.50	2.75	4.00	0.34	2.50	6.81	6.62	0.875	2.25	0.75	5.22	-	-	3/8-16	-	2.25	-	-
143TC	6.50	5.94	3.50	2.75	4.00	0.34	-	6.81	6.62	0.875	2.25	0.75	5.22	2.12	5.88	3/8-16	4.50	2.75	0.12	6.50
145T	6.50	5.94	3.50	2.75	5.00	0.34	2.50	6.81	6.62	0.875	2.25	0.75	5.22	-	-	3/8-16	-	2.25	-	-
145TC	6.50	5.94	3.50	2.75	5.00	0.34	-	6.81	6.62	0.875	2.25	0.75	5.22	2.12	5.88	3/8-16	4.50	2.75	0.12	6.50
182T	8.63	6.50	4.50	3.75	4.50	0.41	3.56	8.44	7.88	1.125	2.75	0.75	5.97	-	-	1/2-13	-	2.75	-	-
182TC	8.63	6.50	4.50	3.75	4.50	0.41	-	8.44	7.88	1.125	2.75	0.75	5.97	2.62	7.25	1/2-13	8.50	3.50	0.25	8.89
184T	8.63	6.50	4.50	3.75	5.50	0.41	3.56	8.44	7.88	1.125	2.75	0.75	5.97	-	-	1/2-13	-	2.75	-	-
184TC	8.63	6.50	4.50	3.75	5.50	0.41	-	8.44	7.88	1.125	2.75	0.75	5.97	2.62	7.25	1/2-13	8.50	3.50	0.25	8.89
213T	9.50	8.00	5.25	4.25	5.50	0.41	3.88	10.03	9.56	1.375	3.37	0.75	7.46	-	-	1/2-13	-	3.50	-	-
213TC	9.50	8.00	5.25	4.25	5.50	0.41	-	10.03	9.56	1.375	3.37	0.75	7.46	3.12	7.25	1/2-13	8.50	4.50	0.25	9.04
215T	9.50	8.00	5.25	4.25	7.00	0.41	3.88	10.03	9.56	1.375	3.37	0.75	7.46	-	-	1/2-13	-	3.50	-	-
215TC	9.50	8.00	5.25	4.25	7.00	0.41	-	10.03	9.56	1.375	3.37	0.75	7.46	3.12	7.25	1/2-13	8.50	4.50	0.25	9.04
254TC	11.25	9.50	6.25	5.00	8.25	0.53	-	12.00	11.50	1.625	4.00	1.25	8.99	3.75	7.25	1/2-13	8.50	4.75	0.25	9.44
256TC	11.25	11.25	6.25	5.00	10.00	0.53	-	12.00	11.50	1.625	4.00	1.25	8.99	3.75	7.25	1/2-13	8.50	4.75	0.25	9.44

NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

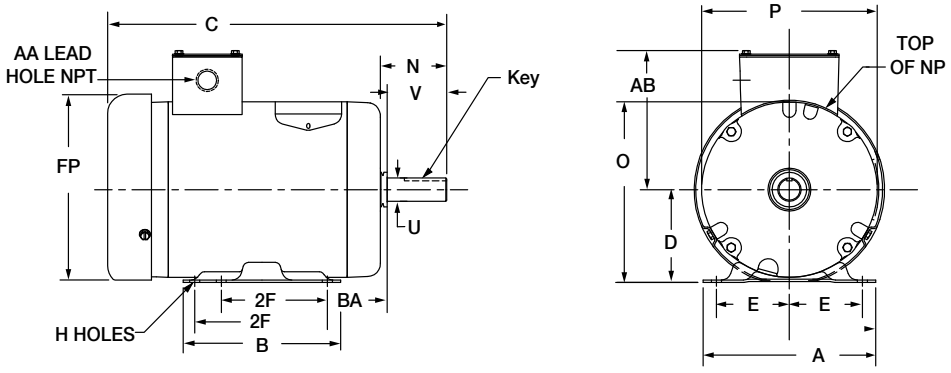
Dimension Drawings

Washdown Single Phase - 56C TEFC

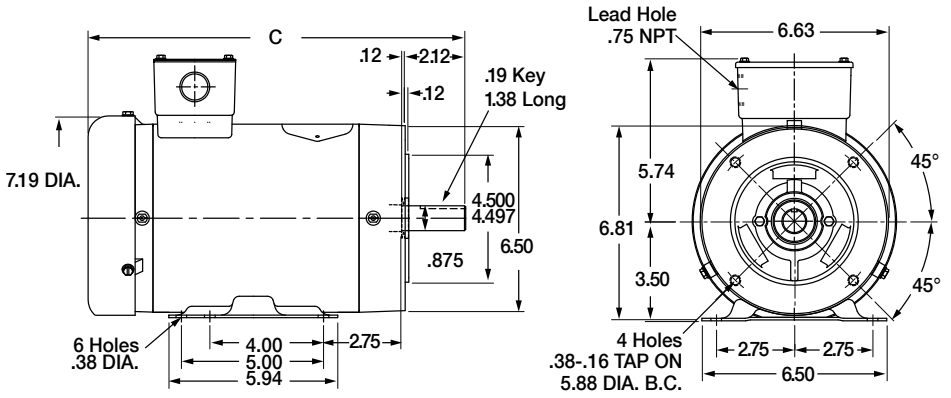


Catalog No. starting with "C" = C-face with base.
Catalog No. starting with "V" = C-face, no base.

Washdown Feather Picker



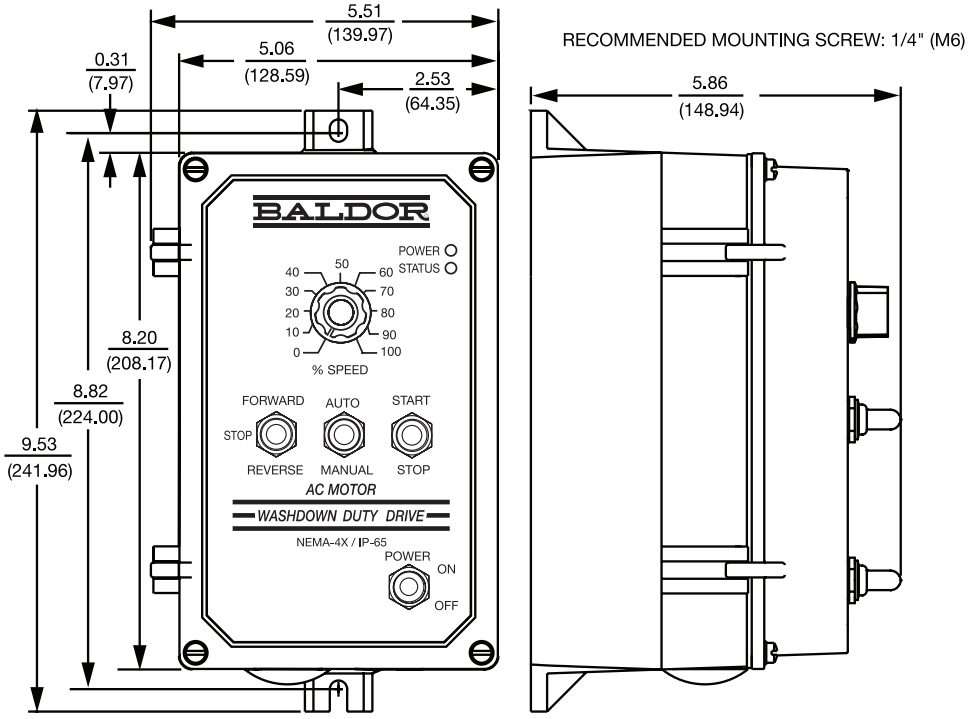
C-Face Feather Picker



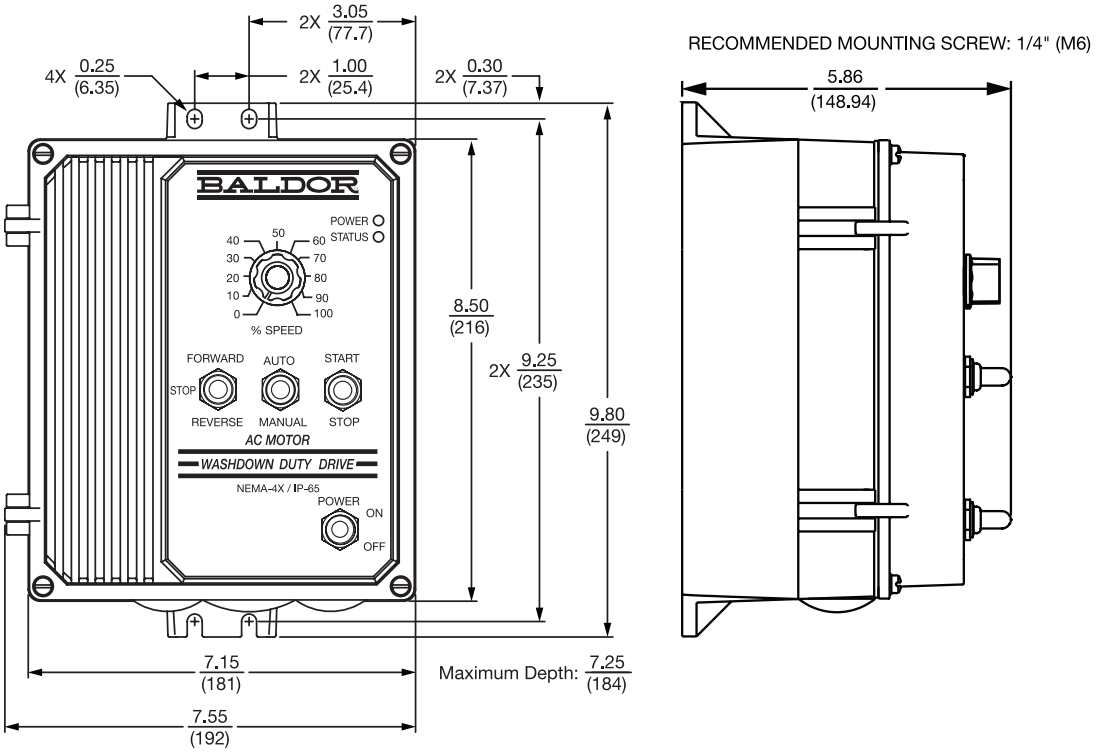
NEMA Frame	A	B	D	E	2F	H	N	O	P	U	V	AA	AB	BA	FP
145T/TY	6.50	6.50	3.50	2.75	5.00	0.34	2.50	6.81	6.62	0.875	2.25	0.75	5.68	2.25	7.19
184TZ	8.63	6.50	4.50	3.75	5.50	0.41	2.81	8.44	7.88	1.102 [28mm]	2.36 [60mm]	0.75	6.88	3.14	8.60

NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

Dimension Drawings Series 5 Micro Inverters



SHOWN WITH OPTIONAL AUTO/MANUAL AND FORWARD-STOP-REVERSE



NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

Dimension Drawings

Washdown DC Motors
NEMA 56C through 1810ATC

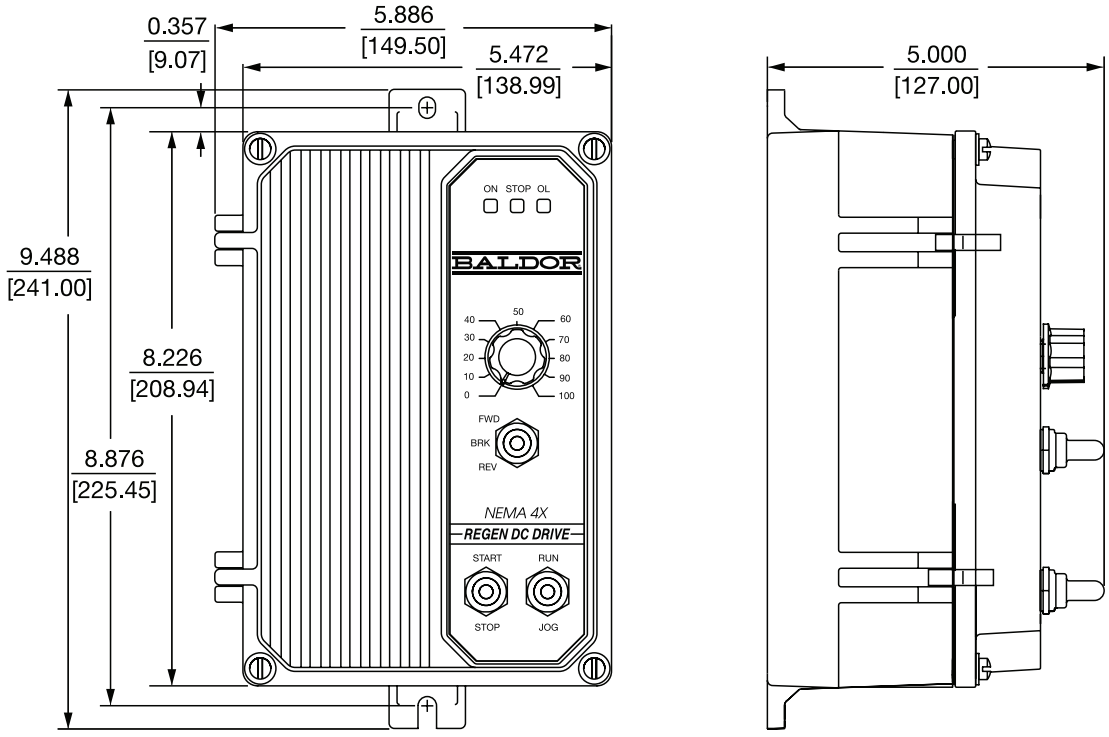
DC Motor Dim.			Tach* Hub	Foot Mounting					Pulley Shaft Dim.				Frame				
No.	Encl.	NEMA Frame		BA	E	2F	G	H	U	V	KEY	AH	A	B	D	O	P
#1	TENV	56C	1.16	2.75	2.44	3.00	0.18	0.34	0.625	1.87	0.19	2.06	6.50	4.50	3.50	5.80	4.68
	TEFC	56C	0.80	2.75	2.44	3.00 or 4.00	0.25	0.34 Slot-(6)	0.625	1.87	0.19	2.06	6.75	5.50	3.50	6.34	5.69
#2	TEFC	143TC	0.80	2.75	2.75	4.00 or 5.00	0.125	0.38-(6)	0.875	2.25	0.19	2.12	6.50	5.94	3.50	6.81	6.63
	TEFC	145TC	0.80	2.75	2.75	4.00 or 5.00	0.125	0.38-(6)	0.875	2.25	0.19	2.12	6.50	5.94	3.50	6.81	6.63
#3	TEFC	184TC	0.80	2.75	3.75	4.50 or 5.50	0.15	0.41-(6)	1.125	2.75	0.25	2.62	8.63	6.50	4.50	10.38	7.88
	TEFC	1810ATC	0.80	2.75	3.75	4.50 or 5.50 or 11.00	0.15	0.41-(12)	1.125	2.75	0.25	2.62	8.63	13.00	4.50	10.38	7.88

NOTE: * Tach adaptability only on white Washdown motors.

DC Motor Dim.			Conduit Box								
No.	Encl.	NEMA Frame	AA	AB	AC	AJ	AK	BB	BD	BF	FP
#1	TENV	56C	0.50	4.46	3.47	5.88	4.50	0.12	6.50	0.38-16(4)	—
#2	TEFC	56C	0.50	4.00	3.00	5.88	4.50	0.12	6.50	0.38-16(4)	6.20
	TEFC	143TC	0.50	4.25	3.38	5.88	4.50	0.12	6.50	0.38-16(4)	7.01
	TEFC	145TC	0.50	4.25	3.38	5.88	4.50	0.12	6.50	0.38-16(4)	7.01
#3	TEFC	184TC	0.50	5.88	4.75	7.25	8.50	0.25	8.87	0.50-13(4)	8.49
	TEFC	1810ATC	0.50	5.88	4.75	7.25	8.50	0.25	8.87	0.50-13(4)	8.49

NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

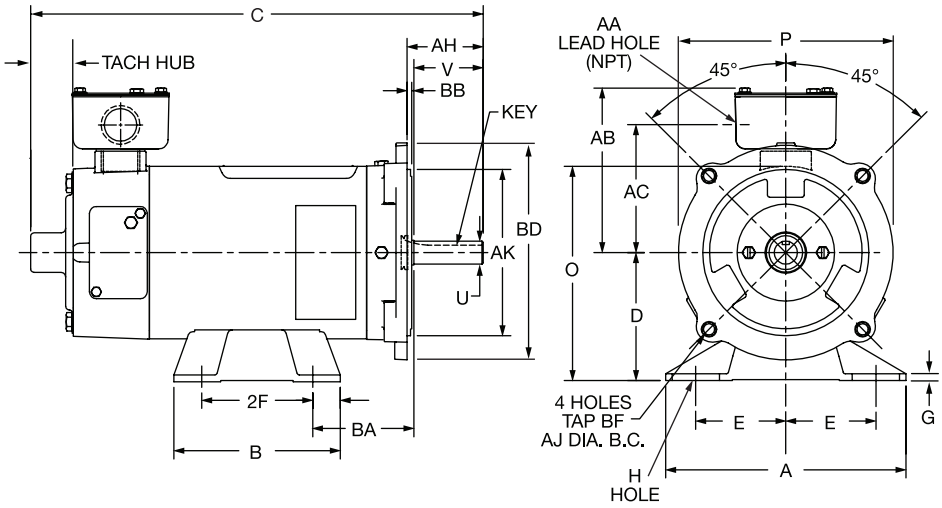
NEMA 4X Washdown Duty DC SCR Controls



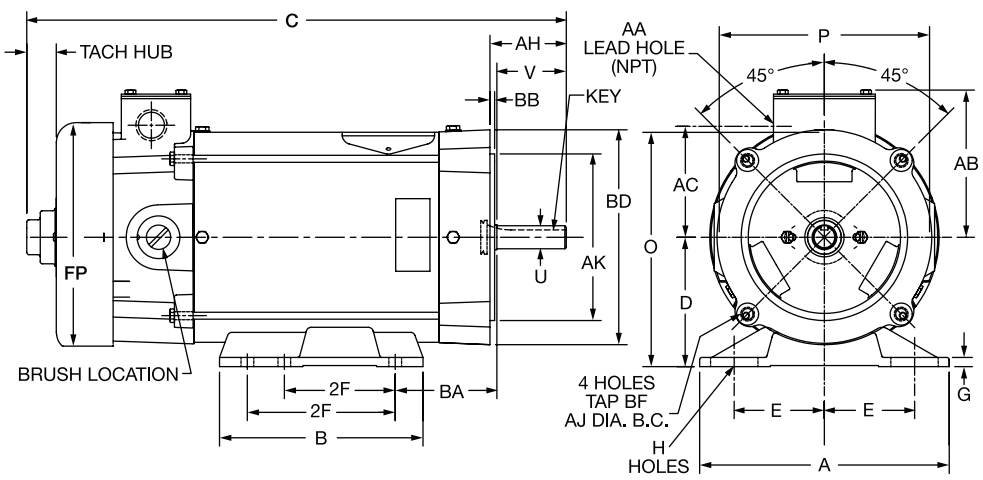
Dimension Drawings

Washdown DC Motors
NEMA 56C through 1810ATC

TENV 56C

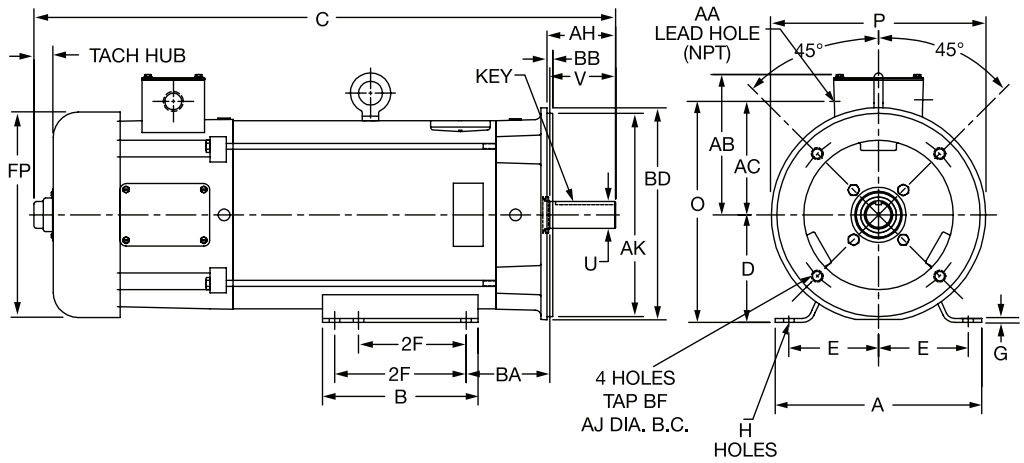


TEFC 56C, 143-5TC



Paint free motors do not have tach adapter and hub extension on fan cover.

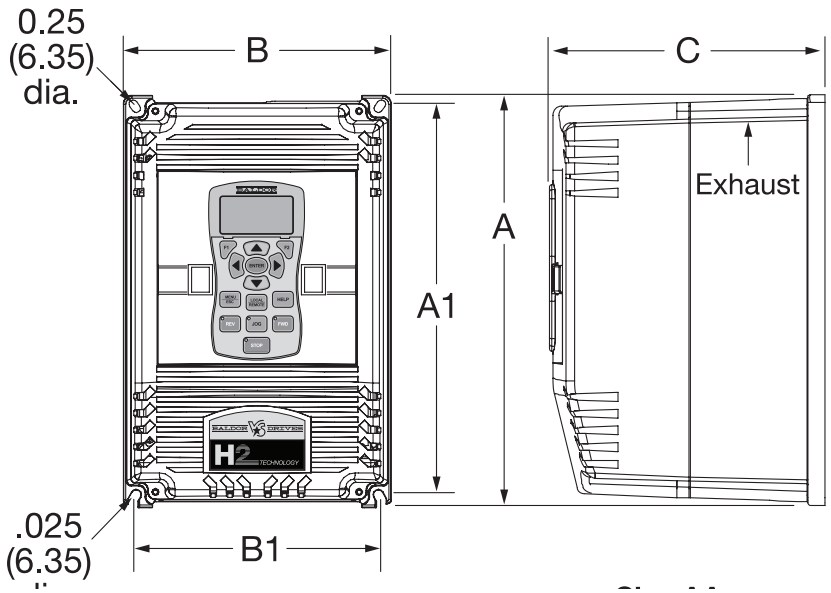
TEFC 184TC, 1810 ATC

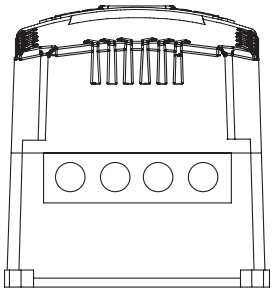


NOTE: Dimension drawing charts on next page.

Dimension Drawings

VS1SP Inverter/Encoderless and VS1GV Closed Loop Vector Washdown Controls



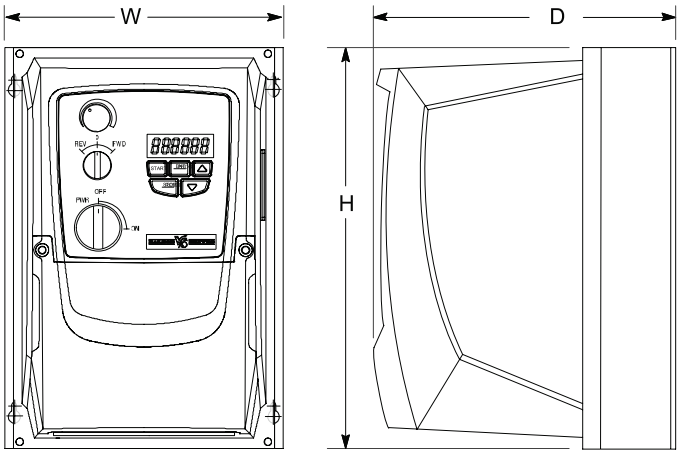


Size	# Holes	Diameter inches (mm)
AA	4	0.6 (15)

Size	Dimensions – inches (mm)					Aprx. Shpg. Weight
	Outside			Mounting		
	Height (A)	Width (B)	Depth (C)	Height (A1)	Width (B1)	
AA	12.27 (311)	7.97 (202)	8.21 (208)	11.75 (298)	7.38 (187)	20 (9.1)
B-N4X	17.5 (444)	10.73 (273)	10.47 (266)	16.5 (419)	9.78 (248)or 7.88 (200)	32 (14.5)

NOTE: Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

VS1MX AC Micro Drive

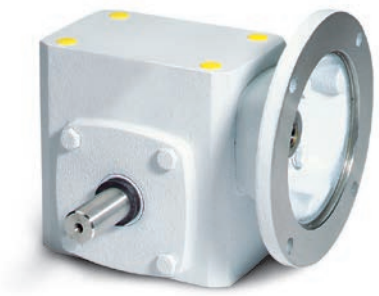


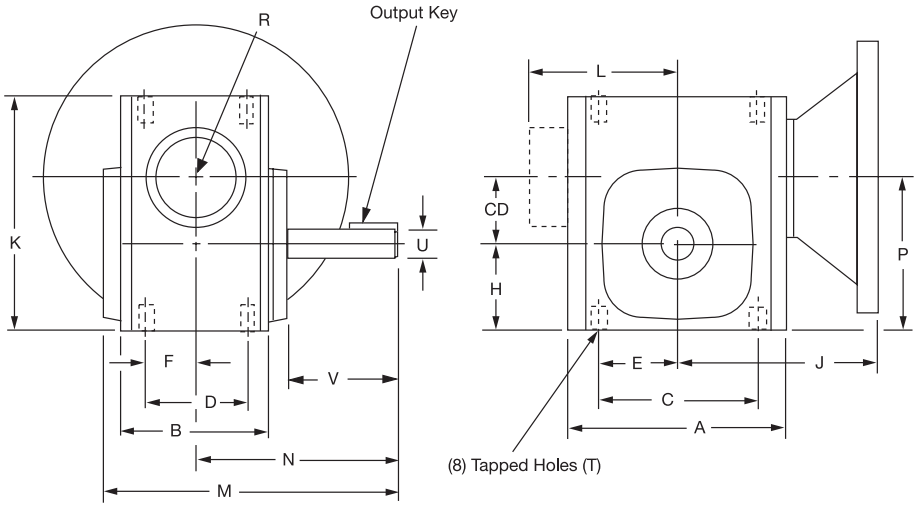
Mounting Dimensions - NEMA 4X (IP66)

Frame	Height Inches (mm)	Width Inches (mm)	Depth Inches (mm)
A	9.13 (232)	6.34 (161)	6.89 (175)
B	10.12 (257)	7.40 (178)	7.30 (185.5)
C	12.01 (305)	8.29 (210.5)	8.97 (227.8)

Dimension Drawings

Washdown Right Angle, Quill Type Gear Reducer





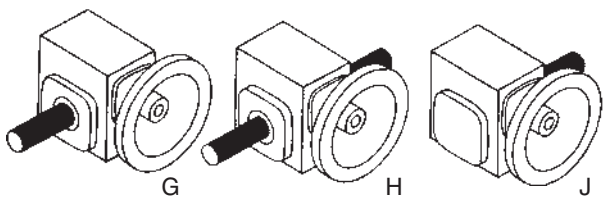
Size	C.D.	A	B	C	D	E	F	H	J			K	L	M	N	P	T	
									42CZ	56C 140TC	180TC		Fan Guard				Tap Size	Depth
913	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	—	3.94	—	4.65	—	6.03	4.00	3.05	0.312-18	0.62
915	1.54	5.13	3.69	4.19	2.75	2.10	1.38	1.91	—	4.50	—	5.38	—	6.72	4.31	3.45	0.312-18	0.62
918	1.75	5.56	3.69	4.19	2.75	2.09	1.38	2.06	—	4.69	—	5.75	—	6.78	4.31	3.81	0.312-18	0.62
921	2.06	6.06	3.81	5.00	2.88	2.50	1.44	2.28	—	5.07	—	6.38	—	7.22	4.69	4.34	0.375-16	0.75
924	2.38	6.44	4.06	5.00	2.88	2.50	1.44	2.50	—	5.25	—	6.94	—	7.75	5.09	4.88	0.375-16	0.75
926	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	—	5.75	6.19	8.00	—	8.50	5.62	5.56	0.375-16	0.75
932	3.25	8.92	5.88	7.50	4.00	3.75	2.00	3.50	—	6.56	7.00	9.38	6.65	10.69	7.06	6.75	0.437-14	0.88

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
913	0.625	2.19	0.188	1.000	B5, B7	13	6.5
915	0.750	2.06	0.188	1.000	B5	21	10.0
918	0.875	2.06	0.188	1.000	B5, B7	28	14.0
921	1.000	2.38	0.250	1.250	B5, B7	34	17.5
924	1.125	2.66	0.250	1.250	B5, B7, B9	40	26.5
926	1.125	2.78	0.250	2.000	B5, B7, B9	54	32.0
932	1.375	3.44	0.313	2.500	B5, B7, B9	87	67.0

Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

Assembly Types

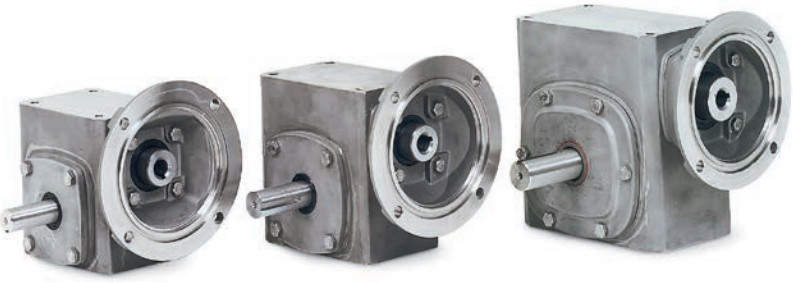
Standard

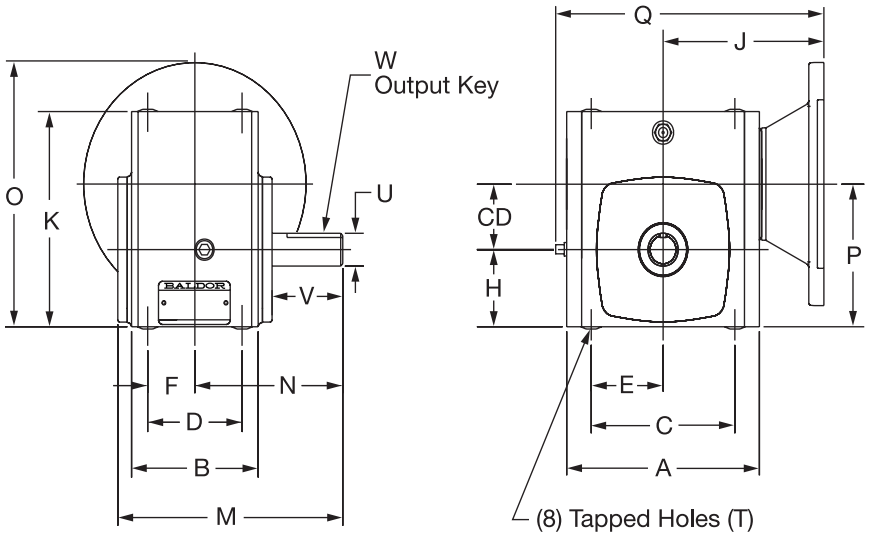


NOTE: * Has Keyway, Standard 42C has Flat
Dimension for reference only. Contact a Baldor District Office or www.baldor.com for the detailed dimension drawing for your specific catalog number.

Dimension Drawings

Stainless Steel Solid Shaft Gear Reducer



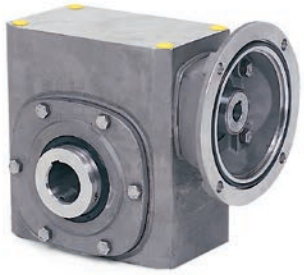


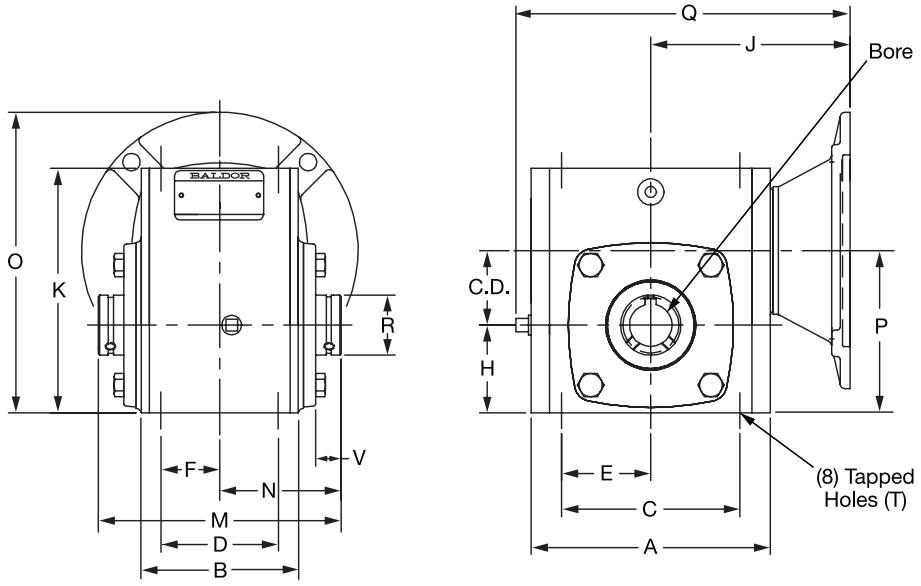
Size	C.D.	A	B	C	D	E	F	H	J		K	M	N	O		P
									56C 140TC	180TC				56C 140TC	180TC	
918	1.75	5.62	3.69	4.19	2.75	2.09	1.38	2.06	4.69	—	5.75	6.78	4.31	7.06	—	3.81
921	2.06	6.13	3.81	5.00	2.88	2.50	1.44	2.28	5.07	—	6.38	7.22	4.69	7.60	—	4.34
926	2.62	7.45	4.44	6.38	3.38	3.19	1.69	2.94	5.75	6.19	8.00	8.50	5.62	8.81	10.07	5.56

Size	Q		T		Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	56C 140TC	180TC	Tap Size	Depth	U +0.000 -0.001	V	Sq.	Lgth.			
918	7.85	—	0.312-18	0.59	0.875	2.06	0.188	1.00	B5, B7	30	14.0
921	8.63	—	0.375-16	0.69	1.000	2.38	0.250	1.25	B5, B7	38	17.5
926	9.90	10.34	0.375-16	0.69	1.125	2.78	0.250	2.00	B5, B7, B9	56	32.0

Dimension Drawings

Stainless Steel Hollow Bore Gear Reducer



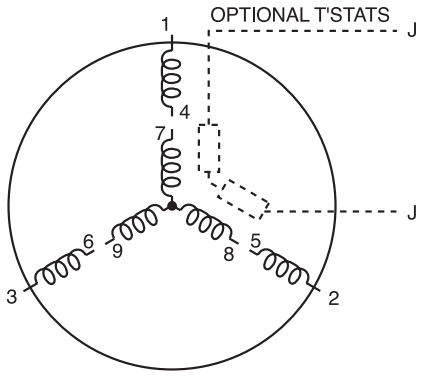


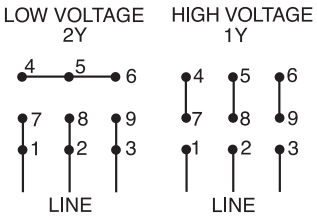
Size	C.D.	A	B	C	D	E	F	H	J		K	M	N	O		P
									56C 140TC	180TC				56C 140TC	180TC	
918	1.75	5.62	3.69	4.19	2.75	2.09	1.38	2.06	4.69	—	5.75	5.70	2.85	7.06	—	3.81
921	2.06	6.13	3.83	5.00	2.88	2.50	1.44	2.28	5.06	—	6.38	6.44	3.22	7.60	—	4.34
926	2.62	7.45	4.44	6.38	3.38	3.19	1.69	2.94	5.75	6.19	8.00	6.88	3.44	8.81	10.07	5.56

Size	Q		T		Output Shaft				W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	56C 140TC	180TC			R	Bore		V					
			Tap Size	Depth		Std.	Max.		Sq.	Length			
918	7.85	—	0.312-18	0.59	1.42	1.000	1.125	.60	0.250	1.625	B5, B7	31	14.0
921	8.63	—	0.375-16	0.69	1.73	1.250	1.250	.63	0.250	1.625	B5, B7	36	17.5
926	9.90	10.34	0.375-16	0.69	2.56	1.438	2.000	.63	0.375	1.500	B5, B7, B9	59	32.0

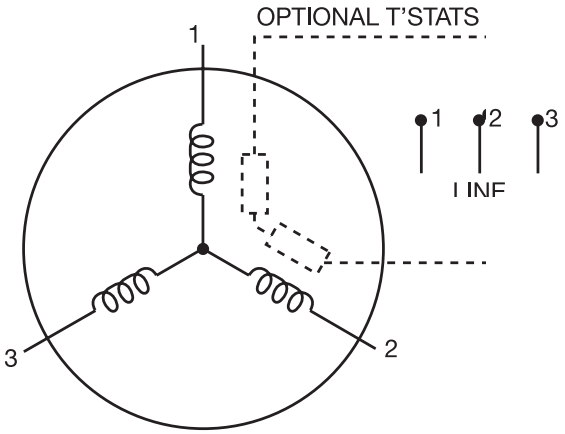
Connection Diagrams – AC 3-Phase Motors

CD0005

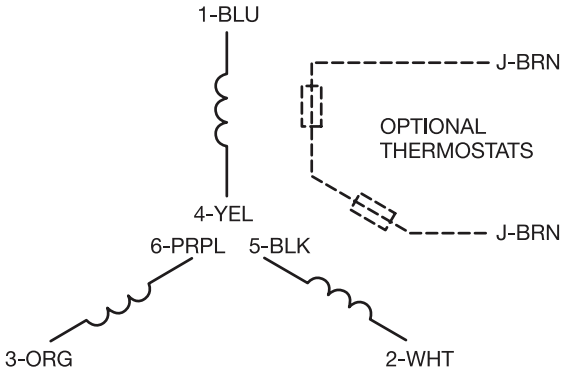


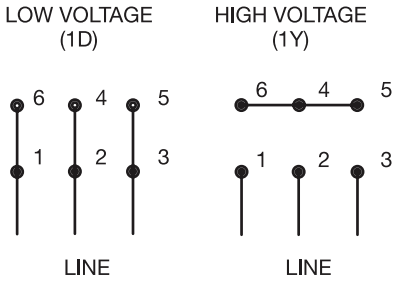


CD0006

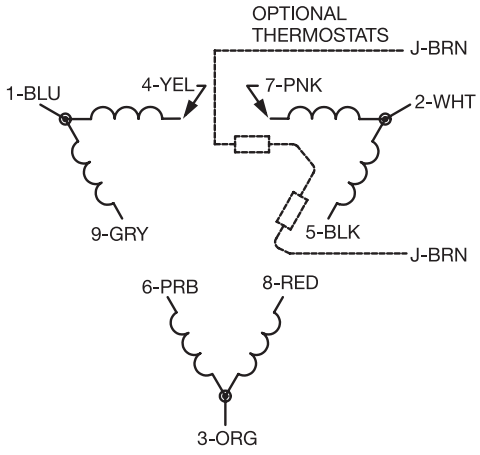


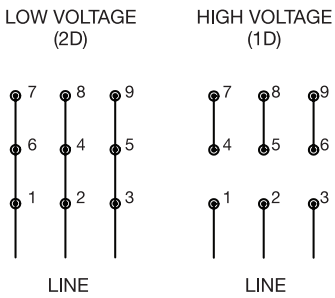
CD0022





CD0180

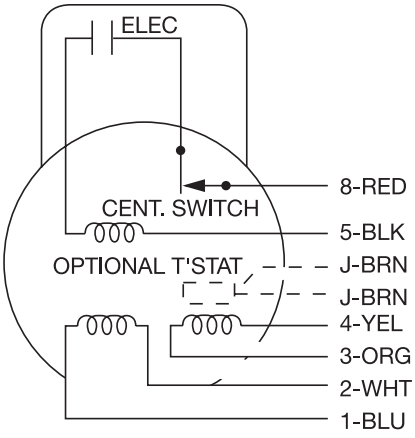




NOTE: Standard rotation is CCW facing end opposite drive extension.

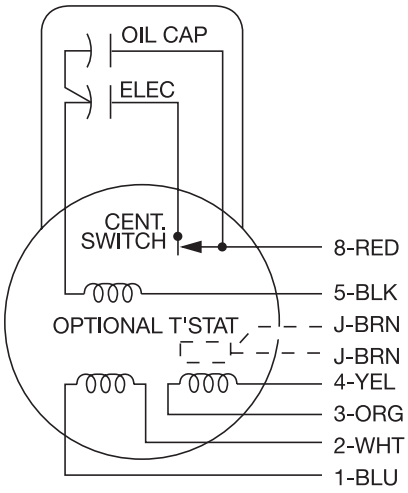
Connection Diagrams – AC Single Phase Motors

CD0001



VOLT	↻	LINE A	LINE B	JOIN
HIGH	STD	1	4,5	2,3,8
HIGH	OPP	1	4,8	2,3,5
LOW	STD	1,3,8	2,4,5	–
LOW	OPP	1,3,5	2,4,8	–

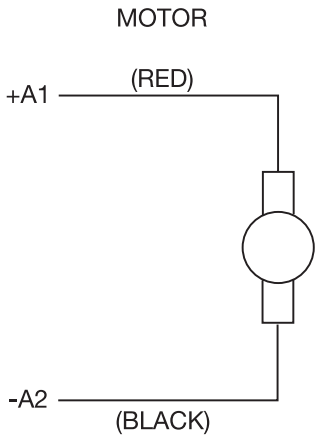
CD0055



VOLT	↻	LINE A	LINE B	JOIN
HIGH	STD	1	4,5	2,3,8
HIGH	OPP	1	4,8	2,3,5
LOW	STD	1,3,8	2,4,5	–
LOW	OPP	1,3,5	2,4,8	–

Connection Diagrams – DC Motors

CD0194



NOTE: Standard rotation is CCW facing end opposite drive extension.

BALDOR
A MEMBER OF THE ABB GROUP

Contact your nearest Baldor Sales Office at these North America locations, or visit www.baldor.com

UNITED STATES

ARIZONA
PHOENIX
4211 S 43RD PLACE
PHOENIX, AZ 85040
PHONE: 602-470-0407
FAX: 602-470-0464

ARKANSAS
CLARKSVILLE
706 WEST MAIN STREET
CLARKSVILLE, AR 72830
PHONE: 479-754-9108
FAX: 479-754-9205

CALIFORNIA
LOS ANGELES
6480 FLOTILLA STREET
COMMERCE, CA 90040
PHONE: 323-724-6771
FAX: 323-721-5859

HAYWARD
21056 FORBES STREET
HAYWARD, CA 94545
PHONE: 510-785-9900
FAX: 510-785-9910

COLORADO
DENVER
3855 FOREST STREET
DENVER, CO 80207
PHONE: 303-623-0127
FAX: 303-595-3772

CONNECTICUT
WALLINGFORD
65 SOUTH TURNPIKE ROAD
WALLINGFORD, CT 06492
PHONE: 203-269-1354
FAX: 203-269-5485

FLORIDA
TAMPA/PUERTO RICO/ VIRGIN ISLANDS
3906 EAST 11TH AVENUE
TAMPA, FL 33605
PHONE: 813-248-5078
FAX: 813-241-9514

GEORGIA
ATLANTA
62 TECHNOLOGY DRIVE
ALPHARETTA, GA 30005
PHONE: 770-772-7000
FAX: 770-772-7200

ILLINOIS
CHICAGO
340 REMINGTON BLVD.
BOLINGBROOK, IL 60440
PHONE: 630-296-1400
FAX: 630-226-9420

INDIANA
INDIANAPOLIS
5525 W. MINNESOTA STREET
INDIANAPOLIS, IN 46241
PHONE: 317-246-5100
FAX: 317-246-5110

IOWA
DES MOINES
1943 HULL AVENUE
DES MOINES, IA 50313
PHONE: 515-263-6929
FAX: 515-263-6515

MARYLAND
BALTIMORE
7071A DORSEY RUN RD
ELKRIDGE, MD 21075
PHONE: 410-579-2135
FAX: 410-579-2677

MASSACHUSETTS
BOSTON
6 PULLMAN STREET
WORCESTER, MA 01606
PHONE: 508-854-0708
FAX: 508-854-0291

MICHIGAN
DETROIT
5993 PROGRESS DRIVE
STERLING HEIGHTS, MI 48312
PHONE: 586-978-9800
FAX: 586-978-9969

MINNESOTA
MINNEAPOLIS
13098 GEORGE WEBER DR, SUITE 400
ROGERS, MN 55374
PHONE: 763-428-3633
FAX: 763-428-4551

MISSOURI
ST LOUIS
13678 LAKEFRONT DRIVE
EARTH CITY, MO 63045
PHONE: 314-373-3032
FAX: 314-373-3038

KANSAS CITY
1501 BEDFORD AVENUE
NORTH KANSAS CITY, MO 64116
PHONE: 816-587-0272
FAX: 816-587-3735

NEW YORK
AUBURN
ONE ELLIS DRIVE
AUBURN, NY 13021
PHONE: 315-255-3403
FAX: 315-253-9923

NORTH CAROLINA
GREENSBORO
1220 ROTHERWOOD ROAD
GREENSBORO, NC 27406
PHONE: 336-272-6104
FAX: 336-273-6628

OHIO
CINCINNATI
2929 CRESCENTVILLE ROAD
WEST CHESTER, OH 45069
PHONE: 513-771-2600
FAX: 513-772-2219

CLEVELAND
8929 FREEWAY DRIVE
MACEDONIA, OH 44056
PHONE: 330-468-4777
FAX: 330-468-4778

OKLAHOMA
TULSA
5555 E. 71ST ST., SUITE 9100
TULSA, OK 74136
PHONE: 918-366-9320
FAX: 918-366-9338

OREGON
PORTLAND
12651 SE CAPPS ROAD
CLACKAMAS, OR 97015
PHONE: 503-691-9010
FAX: 503-691-9012

PENNSYLVANIA
PHILADELPHIA
1035 THOMAS BUSCH
MEMORIAL HIGHWAY
PENNSAUKEN, NJ 08110
PHONE: 856-661-1442
FAX: 856-663-6363

PITTSBURGH
159 PROMINENCE DRIVE
NEW KENSINGTON, PA 15068
PHONE: 724-889-0092
FAX: 724-889-0094

TENNESSEE
MEMPHIS
4000 WINCHESTER ROAD
MEMPHIS, TN 38118
PHONE: 901-365-2020
FAX: 901-365-3914

TEXAS
DALLAS
2920 114TH STREET SUITE 100
GRAND PRAIRIE, TX 75050
PHONE: 214-634-7271
FAX: 214-634-8874

HOUSTON
10355 W. LITTLE YORK ROAD
SUITE 300
HOUSTON, TX 77041
PHONE: 281-977-6500
FAX: 281-977-6510

UTAH
SALT LAKE CITY
2230 SOUTH MAIN STREET
SALT LAKE CITY, UT 84115
PHONE: 801-832-0127
FAX: 801-832-8911

WISCONSIN
MILWAUKEE
1960 SOUTH CALHOUN ROAD
NEW BERLIN, WI 53151
PHONE: 262-784-5940
FAX: 262-784-1215

INTERNATIONAL SALES
FORT SMITH, AR
P.O. BOX 2400
FORT SMITH, AR 72902
PHONE: 479-646-4711
FAX: 479-648-5895

CANADA
EDMONTON, ALBERTA
4053-92 STREET
EDMONTON, ALBERTA T6E 6R8
PHONE: 780-434-4900
FAX: 780-438-2600

TORONTO
OAKVILLE, ONTARIO
2910 BRIGHTON ROAD
OAKVILLE, ONTARIO, CANADA L6H 5S3
PHONE: 905-829-3301
FAX: 905-829-3302

MONTREAL, QUEBEC
5155 J-ARMAND BOMBARDIER
SAINT-HUBERT, QUÉBEC
CANADA J3Z 1G4
PHONE: 514-933-2711
FAX: 514-933-8639

VANCOUVER, BRITISH COLUMBIA
1538 KEBET WAY
PORT COQUITLAM,
BRITISH COLUMBIA V3C 5M5
PHONE 604-421-2822
FAX: 604-421-3113

WINNIPEG, MANITOBA
54 PRINCESS STREET
WINNIPEG, MANITOBA R3B 1K2
PHONE: 204-942-5205
FAX: 204-956-4251

MEXICO
LEON, GUANAJUATO
KM. 2.0 BLVD. AEROPUERTO
LEON, GUANAJUATO, CP37545
MEXICO
PHONE: +52 477 761 2030
FAX: +52 477 761 2010

Baldor Electric Company
P.O. Box 2400
Fort Smith, AR 72902-2400 U.S.A.
Ph (479) 646-4711 • Fax (479) 648-5792
International Fax (479) 648-5895
www.baldor.com

BR455

Printed in U.S.A.
1/13 TCP 20,000