

V*S Master
Severe Duty
Vector Drive,
Three Phase,
Totally Enclosed

1 thru 50 Hp

NEMA 143TC thru 326TC

Applications: Conveyors, extruders, printing lines, converting, test stands, anywhere constant torque is required over a wide speed range. These Severe Duty motors are designed for harsh industrial environments by protecting motor components from moisture, chemicals, corrosion and abrasives.

Features: Designed specifically for Inverter operation where up to 1000:1 constant torque speed range is required. Includes 1024 ppr hollow shaft encoder and three thermostats. Uses Dynapar HSD38M encoder on 180 frame and up. Meets NEMA MG 1, Part 31. Continuous constant torque to zero speed.



Hp	Base Speed RPM	C.H. Speed RPM	NEMA Frame	Enclosure	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1	1800	2700	143TC	TENV	ZDVSNCP3581T	3,016	E2	14.61	65	87.5	230/460	1.5	2, 46, 48
1 1/2	1800	2700	145TC	TENV	ZDVSNCP3584T	3,150	E2	14.61	72	86.5	230/460	2.1	2, 46, 48
2	1800	2700	145TC	TENV	ZDVSNCP3587T	3,459	E2	14.61	73	86.5	230/460	2.8	2, 46, 48
3	1800	2700	182TC	TEFC	ZDVSCP3661T	3,902	E2	20.23	135	89.5	230/460	4.1	2, 46, 48
5	1800	2700	L184TC	TEFC	ZDVSCP3665T	4,234	E2	20.23	128	89.5	230/460	6.6	2, 46, 48
7 1/2	1800	2700	213TC	TEFC	ZDVSCP3770T	4,905	E2	24.58	201	91.7	230/460	9.5	2, 46, 48
10	1800	2700	L215TC	TEFC	ZDVSCP3774T	5,368	E2	24.58	218	92.4	230/460	12.5	2, 46, 48
15	1800	2700	254TC	TEFC	ZDVSCP2333T	6,421	E2	28.14	374	92.4	230/460	18	2, 46, 48
20	1800	2700	256TC	TEFC	ZDVSCP2334T	6,819	E2	28.14	388	93	230/460	24	2, 46, 48
25	1800	2700	284TC	TEFC	ZDVSCP4103T	8,157	E2	30.79	481	93.6	230/460	30	2, 46, 48
30	1800	2700	286TC	TEFC	ZDVSCP4104T	8,760	E2	30.79	494	94.1	230/460	36	2, 46, 48
40	1800	2700	324T	TEFC	ZDVSCP4110T	10,047	E2	33.14	762	94.1	230/460	50	2, 46, 48
50	1800	2700	326T	TEFC	ZDVSCP4115T	11,872	E2	33.14	757	94.5	230/460	60	2, 46, 48

(a) See notes on inside back flap.
CONTINUOUS CONSTANT TORQUE TO ZERO SPEED
Cast Iron Frame

V*S Master Encoder
Feedback Kits
360-440 Frame Size

Encoder kits below feature 1024 pulses per revolution unless otherwise noted in the encoder type column. Connector styles include the MS twist lock (MS-TL), military style 10 pin screw tight (MS-ST), and the EPIC latch style (Latch). HS35, RAHS35M and HSD35 feature hollow shaft mounting. The HSD35 carry the Northstar brand. Encoder kits include the encoder and all mounting hardware. IDVSM & IDRPM kits include the mating connector.

Catalog Number	Motor Enclosure	Type	PPR	Frame Size	Mfg.	Mag or Optical	Conn Type	Input Voltage VDC	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
K99G72	TENV	HS35	1024	180T-250T	BEI	0	MS-ST	5-15	1,442	E8	6
K99G74	TENV	HS35-2048	2048	180T-250T	BEI	0	MS-ST	5-15	1,442	E8	6
K99G76	TENV	HS35	1024	180T-250T	BEI	0	MS-ST	5-24	1,442	E8	6
K99G70	TENV	RAHS35M	1024	180T-250T	Avtron	M	MS-ST	5-24	1,442	E8	9
K99G82	TENV	HS35R	1024	180T-250T	Dynapar	0	MS-TL	5-26	1,412	E8	6
K99G78	TENV	HSD35	1024	180T-250T	Dynapar	0	Latch	5-26	1,622	E8	8
K99G73	TEFC	HS35	1024	180T-440T	BEI	0	MS-ST	5-15	1,442	E8	6
K99G75	TEFC	HS35-2048	2048	180T-440T	BEI	0	MS-ST	5-24	1,442	E8	6
K99G77	TEFC	HS35	1024	180T-440T	BEI	0	MS-ST	5-24	1,442	E8	6
K99G71	TEFC	RAHS35M	1024	180T-440T	Avtron	M	MS-ST	5-24	1,442	E8	9
K00G83	TEFC	HS35R	1024	180T-440T	Dynapar	0	MS-TL	5-26	1,442	E8	6
K99G79	TEFC	HSD35	1024	180T-440T	Dynapar	0	Latch	5-26	1,622	E8	8
K99G80	TENV	HS35	1024	180T-250T	BEI	0	MS-TL	5-28	1,442	E8	6
K99G81	TEFC	HS35	1024	180T-440T	BEI	0	MS-TL	5-28	1,442	E8	6

NOTE: For 56-320 IDVSM frame sizes use the kits from the IDM product table.

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters

Gearmotors and Gear Products