

Blue Max® 2000 Vector Duty, 2000:1 Constant Torque

Totally Enclosed Rigid Base, and C-Face with Rigid Base

Applications: Designed for inverter or vector applications where up to a 2000:1 constant torque speed range is required. Typical uses include: material handling, machine tools, conveyors, crane and hoist, metal processing, test stands, pumps, compressors, textile processing, and other industrial machinery installed in dusty or dirty environments where cast iron construction is required.



- Features:**
- MAX GUARD® Class H insulation system (Class H on catalog models only)
 - Constant torque operation from 0 to base speed on vector drive, including TEFC (On Volts/Hz drives, TEFC motors are limited to 20:1 constant torque)
 - Constant HP operation to twice base speed (143-256 frame); 1.5 times base (all others)
 - Optimized for operation with IGBT inverter
 - C-Face foot mount through 100 HP (as noted)
 - Normally closed thermostats (one per phase, class F)
 - Continuous duty at 40°C ambient
 - 1.0 Service Factor ("B" rise on TEBC motors)
 - Blue Chip quality, cast iron frame and brackets
 - Patented "fracket" design (TEBC enclosure)
 - Ball Bearings (roller bearing available 360 Frame & larger)
 - Field reversible to F2
 - Encoder provisions included on opposite drive end (see Modification and/or Accessory Kits sections)
 - UL Recognized, CSA Certified, and CE Marked
 - Three year warranty



HP	RPM	VOLTS	ENCL	FRAME	CAT. NO.	MODEL NO.	LIST PRICE	MULT. SYMB.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES
1	1800	230/460	TENV	143TC	Y525 ★	143THTN8028	\$938	E3	3.0/1.5	61	13.68	B
1 1/2	1800	230/460	TENV	145TC	Y590 ★	145THTN8037	\$943	E3	4.6/2.3	63	14.68	
2	1800	230/460	TENV	145TC	Y526 ★	145THTN8029	\$1,016	E3	6.0/3.0	70	14.68	
3	1800	230/460	TENV	182TC	Y527 ★	182THTS8028	\$1,276	E3	8.0/4.0	110	16.68	
5	1800	230/460	TENV	184TC	Y564 ★	184THTS8028	\$1,427	E3	13.4/6.7	117	17.68	
7 1/2	1800	230/460	TEFC	213TC	Y595 ★	213THFS8028	\$1,669	E3	19.4/9.7	183	21.03	
	1800	230/460	TENV	213TC	Y565 ★	213THTS8038	\$1,922	E3	21.0/10.5	180	20.56	
10	1800	230/460	TEFC	215TC	Y596 ★	215THFS8029	\$1,994	E3	25.4/12.7	211	22.53	
	1800	230/460	TENV	215TC	Y566 ★	215THTS8038	\$2,280	E3	26.0/13.0	290	22.74	
15	1800	230/460	TEFC	254TC	Y597 ★	254THFNA8038	\$2,402	E3	37.0/18.5	339	26.34	
	1800	230/460	TENV	254TC	Y509 ★	254THTNA8058	\$2,729	E3	40.4/20.2	350	23.38	
20	1200	230/460	TEBC	284TC	Y395	284THFPA8086	\$5,354	E3	40.0/20.0	480	37.48	94
	1800	230/460	TEFC	256TC	Y598 ★	256THFNA8038	\$2,658	E3	52.0/26.0	375	28.09	
	1800	230/460	TENV	256TC	Y510 ★	256THTNA8038	\$3,777	E3	52.0/26.0	300	27.13	
25	1200	230/460	TEBC	286TC	Y582	286THFPA8086	\$6,921	E3	52.4/26.2	660	38.98	94
	1800	230/460	TEFC	284T	Y569 ★	284THFPA8028	\$3,319	E3	63.0/31.5	393	28.58	
	1800	230/460	TEBC	284TC	Y511 ★	284THFPA8038	\$4,639	E3	63.0/31.5	500	37.48	94
30	1200	230/460	TEBC	324TC	Y583	324THFPA8086	\$8,141	E3	67.0/33.5	723	40.41	B,94
	1800	230/460	TEFC	286T	Y570 ★	286THFNA8028	\$3,794	E3	77.0/38.5	594	29.91	
	1800	230/460	TEBC	286TC	Y512 ★	286THFPA8038	\$5,114	E3	74.0/37.0	520	38.98	94
40	1200	230/460	TEBC	326TC	Y584	326THFPA8086	\$8,956	E3	80.4/40.2	750	41.91	B,94
	1800	230/460	TEFC	324T	Y571 ★	324THFPA8028	\$4,913	E3	100/50.0	690	30.71	
	1800	230/460	TEBC	324TC	Y513 ★	324THFPA8038	\$6,126	E3	100/50.0	700	40.41	94
50	1200	230/460	TEBC	364TC	Y585	364THFS8391	\$10,804	E3	107/53.5	1011	42.67	94
	1800	230/460	TEFC	326T	Y572 ★	326THFS8028	\$6,078	E3	121/60.5	640	32.44	
	1800	230/460	TEBC	326TC	Y514 ★	326THFPA8038	\$7,023	E3	120/60.0	750	41.91	94
60	1200	230/460	TEBC	365TC	Y586	365THFS8380	\$12,951	E3	130/65.0	1081	43.78	94
	1800	230/460	TEFC	364T	Y573 ★	364THFS8036	\$7,834	E3	147/73.5	965	33.70	
	1800	230/460	TEBC	364TC	Y515 ★	364THFS8046	\$8,598	E3	147/73.5	1062	42.67	94
75	1200	230/460	TEBC	404TC	Y587	404THFS8092	\$14,367	E3	142/71.0	1339	48.22	94
	1800	230/460	TEFC	365T	Y574 ★	365THFS8036	\$8,875	E3	184/92.0	1006	34.69	
	1800	230/460	TEBC	365TC	Y516 ★	365THFS8046	\$10,278	E3	180/90.0	1106	43.67	94
	1200	230/460	TEBC	405TC	Y588 ★	405THFS8378	\$17,505	E3	180/90.0	1350	49.72	B,94

Blue shaded areas are Cast Iron Frames

★ Stock Model

Footnotes:

d Will become build-up item when current stock is gone

B NEMA Design B
94 Separate power supply required for blower motor

INVERTER DUTY

Blue Max® 2000 Vector Duty, 2000:1 Constant Torque

Totally Enclosed Rigid Base, and C-Face with Rigid Base

HP	RPM	VOLTS	ENCL	FRAME	CAT. NO.	MODEL NO.	LIST PRICE	MULT. SYMB.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES
100	1800	230/460	TEFC	405T	Y575 ★	405THFS8036	\$12,009	E3	230/115	1308	39.32	
	1800	230/460	TEBC	405TC	Y517 ★	405THFS8046	\$14,347	E3	230/115	1429	49.72	94
	1200	230/460	TEBC	444TC	Y589 ★	444THFN8384	\$20,092	E3	250/125	2150	52.72	B,94
125	1800	460	TEFC	444T	Y576 ★	444THFN8036	\$15,805	E3	143	2062	43.27	
	1800	460	TEBC	444T	Y518 ★	444THFN8046	\$18,283	E3	138	2110	52.72	B,94
150	1800	460	TEFC	445T	Y577 ★	445THFN8036	\$18,248	E3	170	2246	45.27	
	1800	460	TEBC	445T	Y519 ★	445THFN8046	\$20,725	E3	170	2321	54.72	94
200	1800	460	TEFC	445T	Y578 ★	445THFN8040	\$22,027	E3	230	2404	45.27	
	1800	460	TEBC	445T	Y520 ★	445THFN8050	\$24,504	E3	230	2457	54.72	94
250	1800	460	TEFC	449T	Y579	449THFS8036	\$27,437	E3	280	2800	53.89	CT
	1800	460	TEBC	449T	Y531 ★	449THFS8046	\$30,693	E3	295	2880	63.21	94
300	1800	460	TEFC	449T	Y580	449THFS8037	\$31,240	E3	330	2890	53.89	CT
	1800	460	TEBC	449T	Y532 ★	449THFS8047	\$34,496	E3	327	2950	63.21	94
350	1800	460	TEBC	449T	Y533 ★	449THFS8048	\$37,753	E3	385	3099	63.21	94

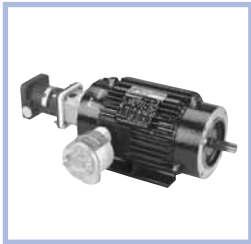
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★ Stock Model

Blue Max® 2000 Vector Duty, 2000:1 Constant Torque

Explosion Proof, Class I Group D, (Group C as noted) Class II Groups F & G

Totally Enclosed Non-Ventilated, C-Face with Rigid Base and Encoder



Applications: Designed for industrial applications with Vector Drives where up to a 2000:1 constant torque speed range and/or precise speed or torque regulation is required, including positioning equipment. Used in dirty, dusty or caustic environments where cast iron construction is required, and installed in hazardous environments as defined by the motor's explosion proof class and group rating. Consult the National Electrical Code and your local regulations for the proper selection of motors in hazardous locations.

Features:

- BEI H38 explosion proof encoder 1024 ppr, Class I Groups C & D, Class II Groups E, F, G included
- MAX GUARD® Class F insulation system
- Constant torque operation from 0 to base speed on vector drive
- Constant HP operation up to twice base speed
- Continuous duty at 40°C ambient
- Optimized for operation with IGBT inverter (NEMA Design A)
- Normally closed thermostats (one per phase, Class F)
- Ball Bearings
- Cast iron frame and brackets
- F1 standard, NOT field reversible to F2
- CSA Certified, under file #LR47504 and #LR21839
- UL listed, under file #E12044
- Meets temperature code T3B
- Three year warranty



INVERTER DUTY

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	LIST PRICE	MULT. SYMB.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES
1	1800	230/460	143TC	TSTAT	Y978 ★	143THEN8034	\$5,435	E3	3.0/1.5	84	21.44	
2	1800	230/460	145TC	TSTAT	Y979 ★	145THEN8034	\$5,549	E3	5.8/2.9	90	21.44	
3	1800	230/460	182TC	TSTAT	Y980 ★	182THES8048	\$5,728	E3	8.2/4.1	168	24.82	
5	1800	230/460	213TC	TSTAT	Y981 ★	213THES8053	\$6,026	E3	13.0/6.5	225	27.42	
7 1/2	1800	230/460	254TC	TSTAT	Y982 ★	254THEN8058	\$6,853	E3	25.0/12.5	260	30.20	CD
10	1800	230/460	254TC	TSTAT	Y983 ★	254THEN8059	\$7,180	E3	27.0/13.5	390	30.20	CD
15	1800	230/460	256TC	TSTAT	Y984	256THEN17031	\$7,506	E3	36.0/18.0	450	31.95	CD
20	1800	230/460	284TC	TSTAT	Y985	284THEN8032	\$8,285	E3	57.6/28.8	555	33.16	CD

Blue shaded areas are cast iron frames.

★ Stock Model

Footnotes:

B NEMA Design B
CD Suitable for Group C

CT Suitable for 20:1 CT on Vector Drive, continuous duty or 2000:1 CT, 60 minute duty.
94 Separate power supply required for blower motor