

Inverter (Vector) Duty: Blue Max® 2000 2000:1 Constant Torque, Totally Enclosed, Three Phase

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
- ◆ **AEGIS® SGR installed internally**
- ◆ Constant Torque operation from 0 to base speed on vector drive, including TEFC (On Volts/Hertz 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 Mark
- ◆ Three year warranty



Rigid Base and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	ENCL	FRAME	CAT NO.	MODEL NO.	STOCK	MULT. SYMBOL	FL. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	230/460	TENV	143TC	Y525	143THTN8028	√	E3	3.0/1.5	61	13.68	B
1 ½	1800	230/460	TENV	145TC	Y590	145THTN8037	√	E3	4.6/2.3	65	14.68	
2	1800	230/460	TENV	145TC	Y526	145THTN8029	√	E3	6.0/3.0	71	14.68	
3	1800	230/460	TENV	182TC	Y527	182THTS8028	√	E3	8.0/4.0	113	16.68	
5	1800	230/460	TENV	184TC	Y564	184THTS8028	√	E3	13.4/6.7	147	17.68	
7 ½	1800	230/460	TEFC	213TC	Y595	213THFS8028	√	E3	19.4/9.7	192	21.03	
7 ½	1800	230/460	TENV	213TC	Y565	213THTS8038	√	E3	21.0/10.5	212	20.56	
10	1800	230/460	TEFC	215TC	Y596	215THFS8029	√	E3	25.4/12.7	212	22.53	
10	1800	230/460	TENV	215TC	Y566	215THTS8038	√	E3	26.0/13.0	272	22.74	
15	1800	230/460	TEFC	254TC	Y597	254THFNA8038	√	E3	37.0/18.5	350	26.34	
15	1800	230/460	TENV	254TC	Y509	254THTNA8058	√	E3	40.4/20.2	334	23.38	
15	1200	230/460	TEBC	284TC	Y395	284THFPA8086		E3	40.0/20.0	500	37.48	BP

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20	1800	230/460	TEFC	256TC	Y598	256THFNA8038	√	E3	52.0/26.0	377	28.09	
20	1800	230/460	TENV	256TC	Y510	256THTNA8038	√	E3	52.0/26.0	425	27.13	
20	1200	230/460	TEBC	286TC	Y582	286THFPA8086		E3	52.4/26.2	660	38.98	BP
25	1800	230/460	TEFC	284T	Y569	284THFPA8028	√	E3	63.0/31.5	393	28.58	
25	1800	230/460	TEBC	284TC	Y511	284THFPA8038	√	E3	63.0/31.5	470	37.48	BP
25	1200	230/460	TEBC	324TC	Y583	324THFPA8086		E3	67.0/33.5	633	40.41	B,BP
30	1800	230/460	TEFC	286T	Y570	286THFNA8028	√	E3	77.0/38.5	371	29.91	
30	1800	230/460	TEBC	286TC	Y512	286THFPA8038	√	E3	74.0/37.0	507	38.98	BP
30	1200	230/460	TEBC	326TC	Y584	326THFPA8086		E3	80.4/40.2	550	41.91	B,BP
40	1800	230/460	TEFC	324T	Y571	324THFPA8028	√	E3	100/50.0	545	30.71	
40	1800	230/460	TEBC	324TC	Y513	324THFPA8038	√	E3	100/50.0	531	40.41	BP
40	1200	230/460	TEBC	364TC	Y585	364THFS8391		E3	107/53.5	1011	42.67	BP
50	1800	230/460	TEFC	326T	Y572	326THFS8028	√	E3	121/60.5	765	32.44	
50	1800	230/460	TEBC	326TC	Y514	326THFPA8038	√	E3	120/60.0	686	41.91	BP
50	1200	230/460	TEBC	365TC	Y586	365THFS8380		E3	130/65.0	1081	43.78	BP
60	1800	230/460	TEFC	364T	Y573	364THFS8036	√	E3	147/73.5	987	33.7	
60	1800	230/460	TEBC	364TC	Y515	364THFS8046	√	E3	147/73.5	1062	42.67	BP
60	1200	230/460	TEBC	404TC	Y587	404THFS8092		E3	142/71.0	1339	48.22	BP
75	1800	230/460	TEFC	365T	Y574	365THFS8036	√	E3	184/92.0	1061	34.69	
75	1800	230/460	TEBC	365TC	Y516	365THFS8046	√	E3	180/90.0	1129	43.67	BP
75	1200	230/460	TEBC	405TC	Y588	405THFS8378	√	E3	180/90.0	1387	49.72	B,BP
100	1800	230/460	TEFC	405T	Y575	405THFS8036	√	E3	230/115	1308	39.32	
100	1800	230/460	TEBC	405TC	Y517	405THFS8046	√	E3	230/115	1529	49.72	BP
100	1200	230/460	TEBC	444TC	Y589	444THFN8384	√	E3	250/125	2117	52.72	BP
125	1800	460	TEFC	444T	Y576	444THFN8036	√	E3	143	2053	43.27	
125	1800	460	TEBC	444T	Y518	444THFN8046	√	E3	138	2010	52.72	B,BP
150	1800	460	TEFC	445T	Y577	445THFN8036	√	E3	170	2247	45.27	
150	1800	460	TEBC	445T	Y519	445THFN8046	√	E3	170	2310	54.72	BP
200	1800	460	TEFC	445T	Y578	445THFN8040	√	E3	230	2388	45.27	
200	1800	460	TEBC	445T	Y520	445THFN8050	√	E3	230	2430	54.72	BP
250	1800	460	TEFC	449T	Y579	449THFS8036	√	E3	280	2900	53.89	CT
250	1800	460	TEBC	449T	Y531	449THFS8046	√	E3	295	2991	63.21	BP
300	1800	460	TEFC	449T	Y580	449THFS8037	√	E3	330	3077	53.89	CT
300	1800	460	TEBC	449T	Y532	449THFS8047	√	E3	327	2950	63.21	BP
350	1800	460	TEBC	449T	Y533	449THFS8048	√	E3	385	3099	63.21	BP

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