

Hazardous Duty™ Explosion Proof, Three Phase Blue Chip XRI® NEMA Premium® Severe Duty

Class I Group C & D, Class II Groups F & G, Rigid Base

Applications: For use on fans, blowers, pumps, compressors, machine tools, and other equipment 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 conditions.



Features:

- ☛ **Meets NEMA Premium® efficiencies**
 - 10:1 Variable torque, see Inverter Duty column for constant torque
 - MAX GUARD® Class F insulation
 - 1.15 Service Factor on sinewave or 1.0 Service Factor on IGBT power
 - Normally closed thermostats (must be connected to control circuit)
 - Meets temperature code T3B
 - All cast iron construction
 - Shaft slinger
 - Internal and external surfaces treated with epoxy paint
 - Extended grease tubes
 - Nameplated 60/50 Hz, 190/380 Volts, at next lower HP where
- See modification section for addition of C-Face Kits (254T-445T)
- Contact Marathon Electric for F2 mounting
- Ball Bearings, except where noted
- UL Listed File No. E12044
- CSA Certified File Nos. LR21839 and LR47504
- Three year warranty
- Contact Marathon Electric for lower HP ratings



footnoted

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES
7 1/2	1200	230/460	254T	E500	254TTGN6576	10:1	\$2,101	E7	91.0	19.8/9.9	345	23.52	20
10	1200	230/460	256T	E501	256TTGN6576	10:1	\$2,534	E7	91.0	26.2/13.1	360	25.27	20
15	3600	230/460	254T	E502	254TTGN6507	10:1	\$2,054	E7	91.7	35.0/17.5	253	23.52	20
	1800	230/460	254T	E503*	254TTGN6531	10:1	\$2,042	E7	92.4	37.6/18.8	385	23.52	20
	1200	230/460	284T	E504	284TTGN6576	10:1	\$3,520	E7	91.7	41.0/20.5	536	26.34	20
20	3600	230/460	256T	E505	-----	10:1	\$2,588	E7	92.4	46.8/23.4	338	24.62	
	1800	230/460	256T	E506*	256TTGN6531	10:1	\$2,417	E7	93.0	48.2/24.1	328	25.27	20
	1200	230/460	286T	E507	-----	10:1	\$4,105	E7	91.7	53.6/26.8	496	27.69	
25	3600	230/460	284TS	E546	284TSTGN6503	10:1	\$3,341	E7	93.6	56.2/28.1	412	24.97	20
	1800	230/460	284T	E547*	284TTGN6533	10:1	\$3,075	E7	93.6	62.0/31.0	512	26.34	20
	1200	230/460	324T	E562	-----	10:1	\$5,184	E7	93.0	65.0/32.5	643	28.75	
30	3600	230/460	286TS	E563	286TSTGN6501	10:1	\$3,601	E7	93.6	67.6/33.8	487	26.47	20
	1800	230/460	286T	E564*	286TTGN6537	10:1	\$3,565	E7	94.1	73.0/36.5	590	27.84	20
	1200	230/460	326T	E565	326TTGS6578	10:1	\$6,068	E7	93.0	77.0/38.5	675	30.37	87
40	3600	230/460	324TS	E566	324TSTGS6501	10:1	\$4,847	E7	93.6	94.0/47.0	734	28.87	20
	1800	230/460	324T	E567*	324TTGS6529	10:1@	\$4,745	E7	94.1	97.0/48.5	700	28.87	20
	1200	230/460	364T	E568	364TTGS6588	10:1	\$7,522	E7	93.6	100/50.0	1046	31.50	NP
50	3600	230/460	326TS	E569	326TSTGS6501	10:1@	\$6,146	E7	93.6	118/59.0	672	30.37	20,87
	1800	230/460	326T	E570*	326TTGS6532	10:1@	\$5,778	E7	94.5	120/60.0	700	30.37	20
	1200	230/460	365T	E571	365TTGS16577	10:1@	\$8,545	E7	94.5	123/61.5	1039	32.50	87
60	3600	230/460	364TS	E572	364TSTGS6506	10:1@	\$8,928	E7	94.5	134/67.0	1033	29.38	87
	1800	230/460	364T	E573*	364TTGS6542	10:1	\$8,395	E7	94.5	138/69.0	1058	31.50	
	1200	230/460	404T	E574	404TTGS6588	10:1	\$10,671	E7	94.5	144/72.0	1295	35.62	
75	3600	230/460	365TS	E575	365TSTGS16503	10:1@	\$10,346	E7	94.1	168/84.0	1097	30.38	87
	1800	230/460	365T	E576*	365TTGS6547	10:1@	\$9,859	E7	94.5	172/86.0	1133	32.50	2:1,20
	1200	230/460	405T	E577	405TTGS6589	10:1@	\$12,426	E7	94.5	180/90.0	1388	37.12	87

Blue shaded areas are Cast Iron Frames * **Stock Model** @ **Requires larger fan**

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet or exceed U.S. EPAAct and/or NRCAn Canadian standards.

Footnotes:

- NP Does not meet NEMA Premium efficiency level
- 2:1 Suitable for 2:1 Constant Torque operation; consult "R164 Rework" table for fan change pricing to upgrade to 10:1 CT

- 20 Rated 60/50 hertz, 190/380 or 380 volt at next lower horsepower
- 87 10:1 Constant torque available as build-up, refer to marketing for price and availability

Continued on next page.

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HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPROX. WGT. LBS.	"C" DIM.	FOOT NOTES
100	3600	230/460	405TS	E578	405TSTGS6503	10:1	\$13,996	E7	94.5	216/108	1349	34.12	87
	1800	230/460	405T	E594*	405TTGS6548	10:1	\$12,701	E7	95.0	226/113	1479	37.12	20
	1200	230/460	444T	E580	444TTGS6588	10:1@	\$17,067	E7	95.0	238/119	1813	41.25	20,87
125	3600	460	444TS	E581	-----	10:1@	\$19,320	E7	94.5	136	1765	37.50	20,87
	1800	460	444T	E582	444TTGS6539	10:1@	\$16,403	E7	95.4	141	1795	41.25	2:1,20
	1200	460	445T	E583	445TTGS6597	10:1@	\$20,412	E7	95.0	155	2016	43.25	87
150	3600	460	445TS	E584	-----	10:1	\$21,586	E7	95.8	165	2010	39.50	87
	1800	460	445T	E585	445TTGS6542	10:1	\$19,391	E7	95.4	168	1990	43.25	20
	1200	460	445T	E586	-----	10:1@	\$22,212	E7	95.8	181	2500	43.19	RB
200	3600	460	445TS	E587	-----	10:1@	\$26,340	E7	95.8	222	2300	39.44	87
	1800	460	445T	E588	445TTGN6538	10:1@	\$21,983	E7	95.8	225	2500	43.19	20
	1200	460	449T	E589	-----	10:1	\$28,632	E7	95.8	240	2950	51.69	RB,87
250	3600	460	449TS	E590	-----	10:1@	\$31,840	E7	96.5	274	2650	47.94	87
	1800	460	449T	E591	-----	10:1	\$26,969	E7	96.5	285	2850	51.69	RB,87
300	1800	460	449T	E592	-----	10:1	\$30,074	E7	96.5	339	3150	51.69	RB,87
350	1800	460	449T	E593	-----	10:1@	\$33,682	E7	96.2	395	3200	51.69	RB

Blue shaded areas are Cast Iron Frames

★ **Stock Model**

@ **Requires larger fan**

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet or exceed U.S. EPAAct and/or NRCAN Canadian standards.

EXPLOSION PROOF

"R164 Rework" Table:

Multiplier Symbol S4

R-164 Rework for 10:1 Constant Torque: Fan Change* & Re-Nameplate	
FRAME	LIST PRICE
254-286	\$175
324-326	\$200
364-365	\$225
404-449	\$250

* Fan change to allow 10:1 constant torque may reduce motor full load efficiency below EPAAct levels.
Operation of motor on non-sinusoidal wave form exempts motor from EPAAct mandated efficiency levels.

Footnotes:

- RB Roller Bearing on shaft end for belted loads only
- 2:1 Suitable for 2:1 Constant Torque operation; consult "R164 Rework" table for fan change pricing to upgrade to 10:1 CT
- 20 Rated 60/50 hertz, 190/380 or 380 volt at next lower horsepower
- 87 10:1 Constant torque available as build-up, refer to marketing for price and availability