

NEMA PREMIUM XRI MARATHON AC MOTORS

NEMA PREMIUM EFFICIENCY MOTORS 1 TO 500HP, 1800RPM

The NEMA Premium XRI Efficiency motor is a three phase, totally enclosed, general purpose motor used on compressors, pumps, conveyors, blowers, and other machinery in dirty and dusty environments. Substantial energy savings can be realized when using these high efficiency motors. Guaranteed efficiencies offer an extra return on your investment when using these premium efficiency motors on high cycle or long run time applications.

FEATURES

- Variable Torque and 20:1 Constant Torque
- 1.0 Service Factor VFD
- Totally Enclosed, Fan Cooled (except as noted)
- Marine Duty, IEEE45, USCG CFR46, IP54 Construction
- Class F MAXGUARD® insulation system (except as noted)
- Division 2 CSA Certification nameplate, for hazardous location; Class I, Groups A, B, C, D, Temperature Code T2B
- Internal and external epoxy paint
- Cast iron construction, foot-mounted
- Ball bearings (except as noted)
- UL Recognized and CSA Certified
- Three year warranty

Marathon NEMA Premium XRI Motors are high efficiency motors ideally suited for machinery in dusty or dirty environments the require high cycle or long run times.



PREMIUM XRI AC MOTORS

SPECIFICATIONS

HP	RPM	Volts	NEMA Frame	Full Load Amps	Full Load Efficiency	Approx. Shipping Weight (lb)	Model No.	Foot-notes
1	1800	460	143T	1.5	85.5	55	MTRE649	3,6,7
1.5	1800	460	145T	2.2	84.0	65	MTRE652	3,6,7
2	1800	460	145T	3.0	85.5	68	MTRE654	3,6,7
3	1800	230/460	182T	7.8/3.9	90.2	102	MTRE470	3,6
5	1800	230/460	184T	12.2/6.1	90.2	130	MTRE473	6
7.5	1800	230/460	213T	19.2/9.6	91.7	200	MTRE476	6
10	1800	230/460	215T	25.0/12.5	91.7	225	MTRE479	6
15	1800	230/460	254T	37.6/18.8	92.4	350	MTRE483	6
20	1800	230/460	256T	48.2/24.1	93.0	425	MTRE485	6
25	1800	230/460	284T	62.0/31.0	93.6	478	MTRE488	
30	1800	230/460	286T	72.0/36.5	94.1	525	MTRE491	
40	1800	460	324T	48.5	94.1	700	MTRE624	1
50	1800	460	326T	60.0	94.1	775	MTRE625	1
60	1800	460	364T	69.0	95.0	980	MTRE626	1
75	1800	460	365T	86.0	95.4	1100	MTRE627	1

HP	RPM	Volts	NEMA Frame	Full Load Amps	Full Load Efficiency	Approx. Shipping Weight (lb)	Model No.	Foot-notes
100	1800	460	405T	113	95.4	1330	MTRE628	1
125	1800	460	444T	141	95.4	1725	MTRE629	1
150	1800	460	445T	172	95.8	2070	MTRE630	1
200	1800	460	445T	226	96.2	2437	MTRE631	1,4
	1800	460	447/449T	225	96.5	2700	MTRE854	1,2,4
	1800	460	447/449T	225	96.5	2700	MTRE770	1,2
250	1800	460	447/449T	285	96.5	2830	MTRE771	1,2
	1800	460	447/449T	285	96.5	2830	MTRE690	1,2,4
300	1800	460	447/449T	339	96.5	3211	MTRE691	1,2,4
	1800	460	447/449T	339	96.5	3211	MTRE772	1,2
350	1800	460	447/449T	395	96.2	3350	MTRE692	1,2,4
400	1800	460	L447/449T	460	96.2	3800	MTRE776	1,2,8
450	1800	460	L447/449T	515	96.5	3800	MTRE777	1,2,8
500	1800	460	5011LS	555	96.2	5500	MTRE364	2,5,8,9

- 1: Suitable for variable torque or 2:1 CT operation; for 10:1 CT contact factory.
- 2: Class H Insulation.
- 3: Totally enclosed, non-ventilated, suitable for 1000:1 CT (Constant Torque).
- 4: Roller bearing on shaft end for belted loads only.
- 5: Not UL Recognized.
- 6: Addition of C-Face kits may result in non-NEMA "BH" dimension. For the resulting "BH" dimension, contact factory.
- 7: Addition of C-Face kits in non-NEMA "AH" dimension. "AH" is 2.12. Rework "AH" is 2.98
- 8: Ball bearings on both ends suitable for direct connection. For belted applications, contact factory.
- 9: Frame size is drilled with 3 sets of footholes, 5010, 5011, and 5012, as standard. Foothole drilling for 5009 available upon request, as a build-up.

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