

## BLUEMAX MARATHON AC MOTORS

### INVERTER DUTY MOTORS 1 TO 1250 HP

The BlueMAX is a totally enclosed, three phase motor 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, and textile processing.

#### FEATURES

- 900 RPM, 1200 RPM, and 1800 RPM models available
- 2000:1 Constant Torque
- 1.0 Service Factor VFD
- Totally Enclosed, foot-mounted; C-Face as noted
- Class H MAXGUARD® insulation system
- F1 standard, field reversible to F2 (except as noted)
- Encoder provisions included on opposite drive end
- Ball bearings (except as noted)
- Class F N/C thermostats
- Cast iron construction
- Continuous duty at 40°C ambient
- UL Recognized and CSA Certified
- Three year warranty

**Marathon BlueMax Motors are ideally suited for any industrial applications in dusty or dirty environments where case iron construction is required.**



## BLUEMAX AC MOTORS

### SPECIFICATIONS 1 TO 125 HP MODELS

HP	RPM	Volts	Enclosure	NEMA Frame	Full Load Amps	Approx. Shipping Weight (lb)	Model No.	Foot-notes
1	1800	230/460	TENV	143TC	3.0/1.5	61	MTRY525	1
1.5	1800	230/460	TENV	145TC	4.6/2.3	65	MTRY590	
2	1800	230/460	TENV	145TC	6.0/3.0	71	MTRY526	
3	1800	230/460	TENV	182TC	8.0/4.0	113	MTRY527	
5	1800	230/460	TENV	184TC	13.4/6.7	147	MTRY564	
7.5	1800	230/460	TEFC	213TC	19.4/9.7	192	MTRY595	
	1800	230/460	TENV	213TC	21.0/10.5	85	MTRY565	
10	1800	230/460	TEFC	215TC	25.4/12.7	212	MTRY596	
	1800	230/460	TENV	215TC	26.0/13.0	272	MTRY566	
15	1800	230/460	TEFC	254TC	37.0/18.5	350	MTRY597	
	1800	230/460	TENV	254TC	40.4/20.2	334	MTRY509	
20	1800	230/460	TEFC	256TC	52.0/26.0	377	MTRY598	
	1800	230/460	TENV	256TC	52.0/26.0	425	MTRY510	
25	1200	230/460	TEBC	286TC	52.4/26.2	507	MTRY582	3
	1800	230/460	TEFC	284T	63.0/31.5	393	MTRY569	
30	1800	230/460	TEBC	284TC	63.0/31.5	470	MTRY511	3
	1200	230/460	TEBC	324TC	67.0/33.5	531	MTRY583	1,3
40	1800	230/460	TEFC	286T	77.0/38.5	371	MTRY570	
	1800	230/460	TEBC	286TC	74.0/37.0	507	MTRY512	3
50	1200	230/460	TEBC	326TC	80.4/40.2	550	MTRY584	1,3
	1800	230/460	TEFC	324T	100/50.0	545	MTRY571	
60	1800	230/460	TEBC	324TC	100/50.0	531	MTRY513	3
	1200	230/460	TEBC	364TC	107/53.5	1011	MTRY585	3

HP	RPM	Volts	Enclosure	NEMA Frame	Full Load Amps	Approx. Shipping Weight (lb)	Model No.	Foot-notes
50	1800	230/460	TEFC	326T	121/60.5	765	MTRY572	
	1800	230/460	TEBC	326TC	120/60.0	586	MTRY514	3
	1200	230/460	TEBC	365TC	130/65.0	1081	MTRY586	3
	900	460	TEBC	404T	69	1339	MTRY2000	3
60	1800	230/460	TEFC	364T	147/73.5	987	MTRY573	
	1800	230/460	TEBC	364TC	147/73.5	1062	MTRY515	3
	1200	230/460	TEBC	404TC	142/71.0	1339	MTRY587	3
	900	460	TEBC	405T	80	1387	MTRY2001	3
75	1800	230/460	TEFC	365T	184/92.0	1061	MTRY574	
	1800	230/460	TEBC	365TC	180/90.0	1129	MTRY516	3
	1200	230/460	TEBC	405TC	180/90.0	1387	MTRY588	3
	900	460	TEBC	444T	107	2117	MTRY2002	3
100	1800	230/460	TEFC	405T	230/115	1308	MTRY575	
	1800	230/460	TEBC	405TC	230/115	1529	MTRY517	3
	1800	460	DPFV	404T	118	1175	MTRY2100	3
	1200	230/460	TEBC	444TC	250/125	2117	MTRY589	3
	1200	460	DPFV	444T	118	1450	MTRY2115	3
	900	460	TEBC	445T	142	2321	MTRY2003	3
125	1800	460	TEFC	444T	143	2053	MTRY576	
	1800	460	TEBC	444T	138	2010	MTRY518	1
	1800	460	DPFV	405T	148	1300	MTRY2101	3
	1200	460	TEBC	445T	153	2321	MTRY2004	3
	1200	460	DPFV	445T	147	1650	MTRY2116	3
	900	460	TEBC	445T	172	2400	MTRY2005	3

### OPTIONS

Add the following to the end of the model number for each option

- F2: F2-F2 mount conduit box
- D: Dynapar HS35 1024ppr encoder
- A1: Avtron HS35A 1024ppr encoder
- L: Lakeshore / Northstar SL56 1024ppr encoder
- M1: Avtron AV56 1024ppr encoder
- M2: Avtron AV56 2048ppr encoder

- 1: NEMA Design B
- 2: 20:1 Constant Torque (2000:1 CT, 60 minute duty)
- 3: Separate power supply required for blower motor
- 4: IEC Frame (not NEMA)

CF: Consult factory



## BLUEMAX AC MOTORS

### SPECIFICATIONS 150 TO 500 HP MODELS

HP	RPM	Volts	Enclosure	NEMA Frame	Full Load Amps	Approx. Shipping Weight (lb)	Model No.	Foot-notes
150	1800	460	TEFC	445T	170	2246	MTRY577	
	1800	460	TEBC	445T	170	2321	MTRY519	3
	1800	460	DPFV	444T	176	1300	MTRY2102	3
	1200	460	TEBC	445T	186	2521	MTRY2006	3
	1200	460	DPFV	445T	177	1650	MTRY2117	3
	900	460	TEBC	449T	218	2991	MTRY2007	3
	200	1800	460	TEFC	445T	230	2388	MTRY578
1800		460	TEBC	445T	230	2430	MTRY520	3
1800		460	DPFV	445T	228	1650	MTRY2103	3
1200		460	TEBC	449T	240	2991	MTRY2008	3
1200		460	DPFV	449T	236	2250	MTRY2118	3
900		460	TEBC	449T	275	2991	MTRY2009	3
250		1800	460	TEFC	449T	280	2900	MTRY579
	1800	460	TEBC	449T	295	2991	MTRY531	3
	1800	460	DPFV	447T	290	2250	MTRY2104	3
	1200	460	TEBC	449T	302	3191	MTRY2010	3
	1200	460	DPFV	449T	298	2250	MTRY2119	3
	900	460	TEBC	5011	340	5500	MTRY2011	3

HP	RPM	Volts	Enclosure	NEMA Frame	Full Load Amps	Approx. Shipping Weight (lb)	Model No.	Foot-notes
300	1800	460	TEFC	449T	330	3077	MTRY580	2
	1800	460	TEBC	449T	327	2950	MTRY532	3
	1800	460	DPFV	447T	332	2250	MTRY2105	3
	1200	460	TEBC	449T	362	3300	MTRY2012	3
	1200	460	DPFV	449T	340	2250	MTRY2120	3
	900	460	TEBC	5013	420	7200	MTRY2013	3
	350	1800	460	TEBC	449T	385	3099	MTRY533
1800		460	DPFV	447T	405	2250	MTRY2106	3
1200		460	TEBC	5011	415	5500	MTRY2014	3
1200		460	DPFV	449T	412	2250	MTRY2121	3
900		460	TEBC	5013	458	7200	MTRY2015	3
400	1800	460	TEBC	449T	450	3500	MTRY2016	3
	1800	460	DPFV	447T	460	2250	MTRY2107	3
	1200	460	TEBC	5011	485	5500	MTRY2017	3
	1200	460	DPFV	508U	460	3450	MTRY2122	3
	900	460	TEBC	IEC400	310	CF	MTRY2018	3,4
500	1800	460	TEBC	5011	570	5500	MTRY2019	3
	1800	460	DPFV	449T	545	2250	MTRY2108	3
	1200	460	TEBC	IEC400	590	CF	MTRY2020	3,4
	1200	460	DPFV	6805	580	5800	MTRY2123	3
	900	460	TEBC	IEC400	610	CF	MTRY2021	3,4

- 1: NEMA Design B
- 2: 20:1 Constant Torque (2000:1 CT, 60 minute duty)
- 3: Separate power supply required for blower motor
- 4: IEC Frame (not NEMA)

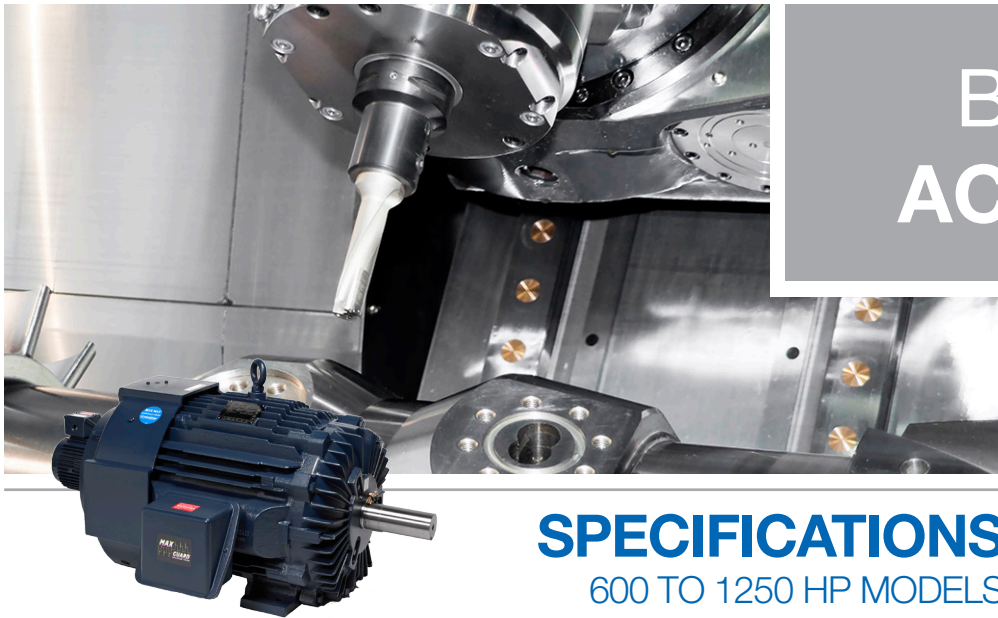
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- F2: F2-F2 mount conduit box
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- L: Lakeshore / Northstar SL56 1024ppr encoder
- M1: Avtron AV56 1024ppr encoder
- M2: Avtron AV56 2048ppr encoder





## BLUEMAX AC MOTORS

### SPECIFICATIONS 600 TO 1250 HP MODELS

HP	RPM	Volts	Enclosure	NEMA Frame	Full Load Amps	Approx. Shipping Weight (lb)	Model No.	Foot-notes
600	1800	460	TEBC	5011	660	5500	MTRY2022	3
	1800	460	DPFV	6805	640	5800	MTRY2109	3
	1200	460	TEBC	IEC400	690	CF	MTRY2023	3,4
	1200	460	DPFV	6805	690	5800	MTRY2124	3
	900	460	TEBC	IEC400	725	CF	MTRY2024	3,4
700	1800	460	TEBC	IEC400	780	CF	MTRY2025	3,4
	1800	460	DPFV	6805	790	5800	MTRY2110	3
	1200	460	TEBC	IEC400	800	CF	MTRY2026	3,4
	1200	460	DPFV	6805	810	5800	MTRY2125	3
	900	460	TEBC	IEC450	900	CF	MTRY2027	3,4

HP	RPM	Volts	Enclosure	NEMA Frame	Full Load Amps	Approx. Shipping Weight (lb)	Model No.	Foot-notes
800	1800	460	TEBC	IEC400	890	CF	MTRY2028	3,4
	1800	460	DPFV	6805	890	5800	MTRY2111	3
	1200	460	TEBC	IEC450	925	CF	MTRY2029	3,4
	1200	460	DPFV	6805	910	5800	MTRY2126	3
	1800	460	TEBC	IEC400	1000	CF	MTRY2030	3,4
900	1800	460	DPFV	6805	1000	5800	MTRY2112	3
	1200	460	TEBC	IEC450	1050	CF	MTRY2031	3,4
	1200	460	DPFV	6805	1010	5800	MTRY2127	3
	1800	460	TEBC	IEC450	1030	CF	MTRY2032	3,4
1000	1800	460	DPFV	6805	1100	5800	MTRY2113	3
	1800	460	TEBC	IEC450	1285	CF	MTRY2033	3,4
1250	1800	460	DPFV	6805	1350	5800	MTRY2114	3

### OPTIONS

Add the following to the end of the model number for each option

- F2: F2-F2 conduit box
- D: Dynapar HS35 1024ppr encoder
- A1: Avtron HS35A 1024ppr encoder
- L: Lakeshore / Northstar SL56 1024ppr encoder
- M1: Avtron AV56 1024ppr encoder
- M2: Avtron AV56 2048ppr encoder

- 1: NEMA Design B
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**YASKAWA AMERICA INC.**  
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