

## BLACKMAX MARATHON AC MOTORS

### INVERTER DUTY MOTORS 1/4 TO 30 HP, 1800RPM

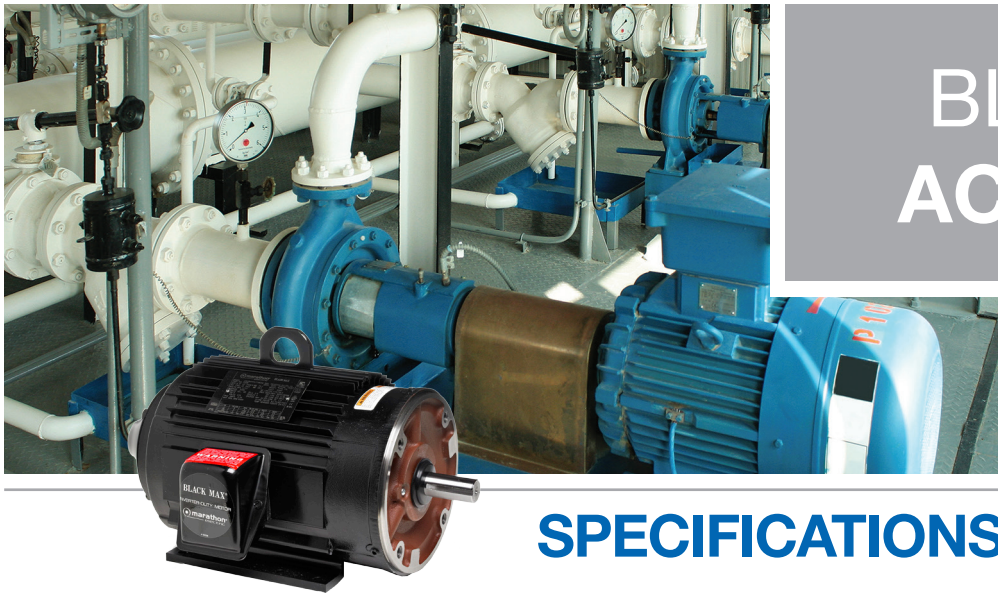
BlackMAX inverter (Vector) duty motors offer 1000:1 constant torque (TENV). This three phase motor is designed for inverter or vector applications where up to 1000:1 constant torque speed range is required. Typical applications include: material handling, machine tools, conveyors, crane and hoist, metal processing, test stands, pumps, compressors, and textile processing

#### FEATURES

- 1000:1 Constant Torque
- 1.0 Service Factor on VFD
- Totally Enclosed Non Vent, C-Face, foot-mounted (except as noted)
- Class F MAXGUARD® insulation system
- F1 standard, field reversible to F2 (except as noted)
- Encoder and brake provisions included on opposite drive end
- NEMA Design A
- Ball bearings
- Class F N/C thermostats
- Optimized for VFD operation
- Continuous duty at 40°C ambient
- UL Recognized and CSA Certified
- Three year warranty



**Marathon BlackMax Motors are ideally suited for any industrial machinery installed in dusty or dirty environments.**



## BLACKMAX AC MOTORS

### SPECIFICATIONS

HP	RPM	Volts	NEMA Frame	F.L. Amps	Approx. Shipping Weight (lb)	Model No.	Footnotes
1/4	1800	230/460	56C	1.2/0.6	19	MTRY592	4, 6
1/2	1800	230/460	56C	1.6/0.8	35	MTRY534	1, 4, 6
1	1800	230/460	56C	3.0/1.5	39	MTRY535	1, 4, 6
	1800	230/460	143TC	3.0/1.5	48	MTRY536	1, 4, 6
1.5	1800	230/460	145TC	4.8/2.4	50	MTRY538	1, 4, 6
2	1800	230/460	145TC	6.0/3.0	73	MTRY551	3
	1800	230/460	145TC	6.0/3.0	65	MTRY612	1, 4, 6
3	1800	230/460	182TC	8.4/4.2	95	MTRY541A	2
5	1800	230/460	184TC	14.0/7.0	110	MTRY543A	2
7.5	1800	230/460	213TC	21.0/10.5	146	MTRY545	2
10	1800	230/460	215TC	27.0/13.5	219	MTRY547	2
15	1800	230/460	254TC	40.0/20.0	260	MTRY549	2, 5
20	1800	230/460	256TC	52.0/26.0	300	MTRY552	3
25	1800	230/460	284TC	62.0/31.0	379	MTRY553	3, 5
30	1800	230/460	286TC	80.0/40.0	575	MTRY393	3, 5

- 1: Bolt-on, removable base for footless mounting option
- 2: Aluminum frame construction
- 3: Cast iron construction
- 4: F1 mounting only, cannot modify to F2
- 5: Reduced HP from 90-120 Hz operation
- 6: Steel frame construction

### OPTIONS

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

- 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

**YASKAWA AMERICA INC.**  
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