

marathon[®]

Motors

BCP Motors with



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REGAL

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General Purpose, Three Phase, Dripproof NEMA Premium® XRI® Efficiency

Applications:

General purpose use on compressors, pumps, conveyors, blowers, and other machinery in environments that are relatively clean and dry. 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:

- ◆ Meets or exceeds NEMA Premium® efficiencies
- ◆ **AEGIS® SGR installed internally (-P Models)**
- ◆ Motors are suitable for 10:1 VT on all frame sizes and 10:1 CT up to 365T frame (Except where noted)
- ◆ 1.15 Service Factor
- ◆ Normally closed thermostats, as noted
- ◆ Class F Insulation
- ◆ Nameplated 60/50 hertz
- ◆ UL Recognized, CSA Certified and CE Marked
- ◆ Three year warranty



Rigid Base

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	MULT. SYMBOL	NOM. EFF.	FL. AMPS	WEIGHT	"C" DIM.	Foot Notes	C-Face Kit
1	1800	208-230/460	143T	U758-P	143TTDR16052	√	E2	85.5	3.5-3.2/1.6	30	12.50	P	A436
1 ½	1800	208-230/460	145T	U759-P	145TTDR16348	√	E2	86.5	4.8-5.6/2.4	35	13.00	P	A436
2	1800	208-230/460	145T	U760-P	145TTDR16349	√	E2	86.5	6.4-5.8/2.9	37	14.00	P	A436
3	1800	208-230/460	182T	E1930-P	182TTDW16063	√	E2	89.5	8.4-8.0/4.0	76	14.56	13,P	A666
5	1800	208-230/460	184T	E1931-P	184TTDW16061	√	E2	89.5	13.6-12.8/6.4	89	15.56	13,P	A666
7 ½	1800	208-230/460	213T	U430A-P	213TTDW16075	√	E2	91.0	21.0-19.2/9.6	135	19.67	13,P	A606
10	1800	208-230/460	215T	U431A-P	215TTDW16073	√	E2	91.7	29.0-26.2/13.1	175	22.15	13,P	A606
15	1800	230/460	254T	E722A-P	254TTDX16043	√	E2	93.0	38.0/18.9	230	22.50	P	N/A
20	1800	230/460	256T	E723B-P	256TTDX16033	√	E2	93.6	49.0/24.5	259	22.50	P	N/A
25	1800	230/460	284T	E1006-P	284TTDR16048	√	E2	93.6	70.2/35.1	292	24.68	P	N/A
30	1800	230/460	284T	E1009-P	286TTDR16038	√	E2	94.1	73.2/36.6	202	26.18	P	N/A
40	1800	230/460	324T	U775-P	324TTDR16050	√	E2	94.1	96.0/48.0	540	28.00	P	N/A
50	1800	230/460	326T	E791A-P	326TTDR16063	√	E2	94.5	121/60.5	453	27.38	P	N/A

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Blue shaded areas are Cast Iron Frames
Specifications are subject to change without notice.

NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

Applications:

General purpose use 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:

- ◆ Meets or exceeds NEMA Premium® efficiencies, except where noted NEMA Premium models are in compliance with EISA2007
- ◆ **AEGIS® SGR installed internally (-P Models)**
- ◆ Suitable for use on a VFD. Variable Torque and Constant Torque (as noted)
- ◆ 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- ◆ F1 conduit box on Rigid Base, F3 on C-Face Footed (Rigid Base) motors
- ◆ Shaft slinger
- ◆ Class F Insulation
- ◆ Ball bearings (except as noted)
- ◆ C-Face Footed models are rated 60/50 Hz, same HP
- ◆ Motors accept C-face kits, as noted
- ◆ UL Recognized, CSA Certified and CE Marked
- ◆ Three year warranty



Models through 40 HP are capable of modification as follows (contact factory to confirm):

- ◆ 1.25 Service Factor (sinewave only)
- ◆ 50Hz at same HP, 1.0 Service Factor (sinewave only)
- ◆ Certain combinations of existing and new nameplate marketings are not possible (contact factory to confirm)
- ◆ Any nameplate changes are subject to modification charges (see MOD Central section in SB300 catalog)
- ◆ Contact Marathon Motors for optional nameplate markings on 50HP and larger

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	CT SPEED RANGE*	MULT. SYMBOL	NOM. EFF.	FL. AMPS	WEIGHT	"C" DIM.	Foot Notes	C-Face Kit
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Rigid Base

1	1800	230/460	143T	E2201-P	143TTFN16040	√	10:1	E9	85.5	3.0/1.5	48	13.99	P	A603
1½	1800	230/460	145T	E2204-P	145TTFN16046	√	10:1	E9	86.5	4.6/2.3	54	13.99	P	A603
2	1800	230/460	145T	E2207-P	145TTFN16045	√	10:1	E9	86.5	6.0/3.0	64	13.99	P	A603
3	1800	230/460	182T	E2210-P	182TTFN16047	√	10:1	E9	89.5	8.0/4.0	104	15.87	P	A644
5	1800	230/460	184T	E202-P	184TTFN16056	√	10:1	E9	89.5	12.4/6.2	109	17.85	P	A644
7½	1800	230/460	213T	E203-P	213TTFN16326	√	10:1	E9	91.7	20.0/10.0	185	19.63	P	A206
10	1800	230/460	215T	E204-P	215TTFN16057	√	10:1	E9	91.7	25.0/12.5	177	22.63	P	A206
15	1800	230/460	254T	E2122-P	254TTFN16036	√	10:1	E9	92.4	38.1/19.1	174	22.99	P	A1209
15	1800	230/460	254T	E205-P	254TTFNA16074	√	20:1	E9	92.4	37.5/18.8	350	23.52	P	A284
20	1800	230/460	256T	E2124-P	256TTFN16038	√	10:1	E9	93.0	48.6/24.3	191	26.24	P	A1209
20	1800	230/460	256T	E206-P	256TTFNA16070	√	20:1	E9	93.0	48.2/24.1	425	25.27	P	A284
25	1800	230/460	284T	E207-P	284TTFNA16070	√	20:1	E9	93.6	62.0/31.0	500	26.34	P	A618
30	1800	230/460	286T	E208-P	286TTFNA16328	√	20:1	E9	94.1	73.0/36.5	525	27.84	P	A618
40	1800	230/460	324T	E209-P	324TTFN16066	√	20:1	E9	94.1	95.0/47.5	528	30.37	P	A214
50	1800	230/460	326T	E210-P	326TTFN16073	√	20:1@	E9	94.5	120/60.0	775	31.87	P	A214

C-Face Footed (Rigid Base)

1	1800	230/460	143TC	E2001A	143TTFR16053	√	10:1	E9	85.5	3.2/1.6	32	13.75	P	—
1½	1800	230/460	145TC	E2004A	145TTFR16331	√	10:1	E9	86.5	4.8/2.4	34	13.75	P	—
2	1800	230/460	145TC	E2007A	145TTFR16329	√	10:1	E9	86.5	5.8/2.9	50	14.25	P	—
3	1800	208-230/460	182TC	E2010	182TTFW6026	√	10:1	E9	89.5	8.4-78/3.9	87	13.97	13,P	—
5	1800	230/460	184TC	E2013	184TTFW6026	√	10:1	E9	90.2	13.7-12.6/6.3	87	14.97	13,P	—
7½	1800	230/460	213TC	E2016A	213TTFW16039	√	10:1	E9	91.7	19.4/9.7	143	20.97	P	—
10	1800	230/460	215TC	E2019A	215TTFW16047	√	10:1	E9	91.7	25.6/12.8	164	22.22	P	—

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

@ Requires larger fan

*Requires nameplate modification

Blue shaded areas are Cast Iron Frames

Specifications are subject to change without notice.

Hazardous Duty™ Division 1 Explosion Proof, NEMA Premium® XRI®, Class I and II, Groups C, D, F & G, Blue Chip® Severe Duty: Three Phase

Applications:

For extreme hazardous applications in the process industries such as chemical plants, refineries, above-ground mines, and other caustic environments where long life and ultra-high efficiency are required. Guaranteed efficiencies offer an eXtra Return on your Investment when using these premium efficiency motors on high cycle or long run time applications.

Features:

- ◆ Meets NEMA Premium® efficiencies
- ◆ **AEGIS® SGR installed internally (-P Models)**
- ◆ 10:1 Variable torque, see Inverter Duty column for constant torque
- ◆ MAX GUARD® Class F insulation system
- ◆ Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- ◆ Internal and external epoxy paint
- ◆ 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- ◆ Precision balanced to .08"/sec
- ◆ Extended grease tubes
- ◆ Normally closed thermostats (must be connected to control circuit)
- ◆ Meets temperature code T3B
- ◆ Shaft slinger
- ◆ Nameplated 60/50 Hz, 190/380 Volts, at next lower HP, as noted
- ◆ See MOD CENTRAL for:
C-Face Kit Modifications
F2 mounting
- ◆ Ball bearings (except as noted)
- ◆ UL Listed File No. E12044
- ◆ CSA Certified File No. LR47504
- ◆ Three year warranty



Rigid Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT NO.	MODEL NO.	STOCK	CT SPEED RANGE	MULT. SYMBOL	NOM. EFF.	FL. AMPS	WEIGHT	"C" DIM.	C-Face Kit
3	1800	230/460	182T	Y	U989-P	182TTGN6541	√	10:1	E7	89.5	8.0/4.0	161	15.87	25,68,91,P
5	1800	230/460	184T	Y	U990-P	184TTGN6544	√	10:1	E7	89.5	12.4/6.2	150	17.87	25,68,91,P
7½	1800	230/460	213T	Y	U991A-P	213TTGN16548	√	10:1	E7	91.7	20.0/10.0	251	22.63	25,68,91,P
10	1800	230/460	215T	Y	U992A-P	215TTGN16539	√	10:1	E7	91.7	25.0/12.5	253	22.63	25,68,P
15	1800	230/460	254T	Y	E503-P	254TTGN16549	√	10:1	E7	92.4	37.5/18.8	385	23.52	68,P
20	1800	230/460	256T	Y	E506-P	256TTGN16552	√	10:1	E7	93.0	48.0/24.1	409	25.27	68,P
25	1800	230/460	284T	Y	E547-P	284TTGN16550	√	10:1	E7	93.6	62.0/31.0	536	26.34	68,P
30	1800	230/460	286T	Y	E564-P	286TTGN16546	√	10:1	E7	94.1	73.0/36.5	588	27.84	68,P
40	1800	230/460	324T	Y	E567-P	324TTGS16541	√	10:1	E7	94.1	95.0/47.5	749	30.37	68,P
50	1800	230/460	326T	Y	E570-P	326TTGS16546	√	10:1@	E7	94.5	123/61.5	791	30.37	68,P

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements
 @ Requires larger fan

Blue shaded areas are Cast Iron Frames
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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

Blue shaded areas are Cast Iron Frames
Specifications are subject to change without notice.

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

HP	RPM	VOLTS	ENCL	FRAME	CAT NO.	MODEL NO.	STOCK	MULT. SYMBOL	FL. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
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

Blue shaded areas are Cast Iron Frames
Specifications are subject to change without notice.

Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI® Totally Enclosed, Rigid Base, Three Phase

Applications:

Chemical plants, paper mills, refineries, mines, food processing, foundries, and other severe duty environments where long life and ultra-high efficiency are desired. Guaranteed efficiencies offer an eXtra Return on your Investment when using these premium efficiency motors on high cycle or long run applications.

Features:

- ♦ Meets or exceeds NEMA Premium® efficiencies, except where noted NEMA Premium models are in compliance with EISA2007
- ♦ **AEGIS® SGR installed internally (-P Models)**
- ♦ Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- ♦ Provisions to add stub shaft for an encoder (182T-449T, TEFC only)
- ♦ Internal and external epoxy paint
- ♦ MAX GUARD® Class F insulation system
- ♦ Constant Torque speed range is listed in CT SPPED RANGE column
- ♦ 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- ♦ Bearing caps (254T and larger)
- ♦ Precision balanced to .08"/sec
- ♦ Extended grease tubes, regreasable in service
- ♦ Brass drain and breather
- ♦ Meets IEEE45 USCG Marine Duty, IP54 Construction
- ♦ Meets Ford EM1 Automotive Duty Specification
- ♦ **AEGIS® SGR installed (BCP) -P models are not certified for Hazardous Duty™ Division 2 locations**
- ♦ Hazardous Duty™ Division 2 CSA certification nameplate
- ♦ Division 2 / Zone 2 Class I (gases), Groups A, B, C, D
- ♦ Meets temperature code T2B
- ♦ Actual test and vibration data supplied with each motor
- ♦ Ball bearings (except as noted)
- ♦ UL Recognized (through 449T) and CSA Certified and CE Marked
- ♦ Three year warranty

Models through 40 HP are capable of modification as follows (contact factory to confirm):

- ♦ 1.25 Service Factor (*sinewave only*)
- ♦ 50 Hz at same HP, 1.0 Service Factor (*sinewave only*)
- ♦ Any nameplate changes are subject to modification charges (see MOD Central section)
- ♦ Contact Marathon Motors for optional nameplate markings on 50 HP and larger



HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	CT SPEED RANGE*	MULT. SYMBOL	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	Foot Notes	C-Face Kit
15	1800	460	254T	E620-P	254TTFNA16838	√	20:1	E9	92.4	18.8	350	23.52	75,P	A284
20	1800	460	256T	E621-P	256TTFNA16855	√	20:1	E9	93.0	24.1	425	25.27	75,P	A284
25	1800	460	284T	E622-P	284TTFNA16851	√	20:1	E9	93.6	31.0	478	26.34	P	A618
30	1800	460	286T	E623-P	286TTFNA16847	√	20:1	E9	94.1	36.5	525	27.84	P	A618
40	1800	460	324T	E624-P	324TTFNA16860	√	20:1@	E9	94.1	47.5	700	30.37	P	A214
50	1800	460	326T	E625-P	326TTFNA16844	√	20:1@	E9	94.5	60.0	775	31.87	P	A214

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

@ Requires larger fan

*Requires nameplate modification

Blue shaded areas are Cast Iron Frames

Specifications are subject to change without notice.

Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI® IEEE-841, Totally Enclosed, Rigid Base, Three Phase

Applications:

For extreme applications in the process industries such as chemical plants, pulp and paper mills, refineries, above-ground mines, food processing, foundries, and other severe duty environments where long life and ultra-high efficiency are required. Guaranteed efficiencies offer an eXtra Return on your Investment when using these premium efficiency motors on high cycle or long run time applications.

Features:

- ◆ Meets or exceeds NEMA Premium® efficiencies, except where noted NEMA Premium models are in compliance with EISA2007
- ◆ Meets IEEE-841 standard for severe duty applications
- ◆ **AEGIS® SGR installed internally (-P Models)**
- ◆ Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- ◆ Inpro/Seal® VBX® bearing isolators on drive end shaft extension TENV and on both ends of TEFC
- ◆ Provisions to add stub shaft for an encoder (182T-449T, TEFC only)
- ◆ Internal and external epoxy paint
- ◆ MAX GUARD® Class F insulation system
- ◆ Constant Torque speed range is listed in CT SPEED RANGE column
- ◆ 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- ◆ Bearing caps (254T and larger)
- ◆ Precision balanced to .08"/sec
- ◆ Extended grease tubes, regreasable in service
- ◆ Brass drain and breather
- ◆ Meets IEEE45 USCG Marine Duty, API RP14F for offshore platforms, IP56
- ◆ Meets General Motors GM 7E-TA Automotive Duty Specification
- ◆ Meets NEMA MG1 - 1.26.6 Waterproof Specification
- ◆ **AEGIS® SGR installed (BCP) -P models are not certified for Hazardous Duty™**
- ◆ Division 2 locations
- ◆ Hazardous Duty™ Division 2 CSA certification nameplate
- ◆ Division 2 / Zone 2 Class I (gases), Groups A, B, C, D
- ◆ Hazardous Duty™ Division 2 CSA certification nameplate
- ◆ Division 2 / Zone 2 Class I (gases), Groups A, B, C, D
- ◆ Meets temperature code T2B
- ◆ Actual test and vibration data supplied with each motor
- ◆ Ball bearings (except as noted)
- ◆ UL Recognized (through 449T) and CSA Certified and CE Marked
- ◆ Five year warranty



Models through 40 HP are capable of modification as follows (contact factory to confirm):

- ◆ 1.25 Service Factor (*sinewave only*)
- ◆ 50Hz at same HP, 1.0 Service Factor (*sinewave only*)
- ◆ Any nameplate changes are subject to modification charges (*see MOD Central section*)
- ◆ Contact Marathon Motors for optional nameplate markings on 50 HP and larger

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	CT SPEED RANGE*	MULT. SYMBOL	NOM. EFF.	FL. AMPS	WEIGHT	"C" DIM.	Foot Notes	C-Face Kit
15	1800	460	254T	W546-P	254THFNA19065	√	20:1	E9	92.4	18.8	350	23.52	P	A184
20	1800	460	256T	W553-P	256THFNA19056	√	20:1	E9	93.0	24.1	425	25.27	75,P	A184
25	1800	460	284T	W560-P	284THFNA19048	√	20:1	E9	93.6	31	478	26.44	P	A186
30	1800	460	286T	W567-P	286THFNA19066	√	20:1	E9	94.1	36.5	525	27.84	P	A186
40	1800	460	324T	W573-P	324THFS19058	√	20:1@	E9	94.1	47.5	700	28.87	P	A187
50	1800	460	326T	W580-P	326THFS19071	√	20:1@	E9	94.5	60	775	30.37	P	A187
60	1800	460	364T	W587-P	364THFS19061	√	20:1@	E9	95.0	69	1000	31.5	P	A188
75	1800	460	365T	W594-P	365THFS19065	√	20:1@	E9	95.4	86	1100	32.5	P	A188
100	1800	460	405T	W600-P	405THFS19327	√	20:1@	E9	95.4	113	1330	37.12	P	A190
125	1800	460	444T	W606-P	444THFN19044	√	20:1@	E9	95.4	141	1725	41.25	P	A194
150	1800	460	445T	W612-P	445THFN19071	√	20:1@	E9	95.8	172	2070	43.19	P	A194
200	1800	460	445T	W618-P	445THFN19070	√	20:1@	E9	96.2	226	2437	43.19	P,RB	A194
250	1800	460	447/9T	W626-P	449THFS19342	√	20:1@	E9	96.5	285	2830	51.69	P	N/A

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

@ Requires larger fan

*Requires nameplate modification

Blue shaded areas are Cast Iron Frames

Specifications are subject to change without notice.

Blue Chip® Severe Duty / Cooling Tower: Single-Speed TEAO, Rigid Base, Three Phase

Applications:

For cooling tower applications. Designed for outdoor use in harsh environments and conditions. Guaranteed efficiencies offer an eXtra Return on your Investment when using these premium efficiency motors on high cycle or long run time applications.

Features:

- ◆ Meets or exceeds NEMA Premium® efficiencies
- ◆ **AEGIS® SGR installed internally**
- ◆ Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- ◆ Internal and external epoxy paint
- ◆ MAX GUARD® Class F insulation system
- ◆ 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- ◆ Rated 60/50 hertz, 190/380 or 380 volt at next lower horsepower
- ◆ Extended grease tubes, regreasable in service
- ◆ T-drains provided for effective drainage (Installed in both endshields)
- ◆ Suitable for all angle mounting
- ◆ Inpro/Seals® quality VBX® bearing isolators
- ◆ Ball Bearings
- ◆ Actual test and vibration data supplied with each motor
- ◆ UL Recognized and CSA Certified
- ◆ Suitable for 10:1 VT, 20:1 CT on VFD
- ◆ Three year warranty



HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	CT SPEED RANGE*	MULT. SYMBOL	NOM. EFF.	FL. AMPS	WEIGHT	"C" DIM.
3	1800	230/460	182T	U1867	182TTTN16571	√	20:1	S3	90.2	8.0/4.0	145	15.87
5	1800	230/460	184T	U1868	184TTTN16545	√	20:1	S3	90.2	12.4/6.2	128	17.87
7 ½	1800	230/460	213T	U1869	213TTTN16539	√	20:1	S3	91.7	19.2/9.6	273	18.22
10	1800	230/460	215T	U1870	215TTTN16541	√	20:1	S3	91.7	25/12.5	267	19.72
15	1800	230/460	254T	U1871	254TTTNA16545	√	20:1	S3	92.4	37.5/18.8	349	23.52
20	1800	230/460	256T	U1872	256TTTNA16544	√	20:1	S3	93.0	48.0/24.1	375	25.27
25	1800	230/460	284T	U1873	284TTTNA16540	√	20:1	S3	93.6	62.0/31.0	440	26.34
30	1800	230/460	286T	U1874	286TTTNA16541	√	20:1	S3	94.1	73.0/36.5	503	27.84
40	1800	230/460	324T	U1875	324TTTS16535	√	20:1	S3	94.1	95.0/47.5	567	30.37
50	1800	230/460	326T	U1876	326TTTS16533	√	20:1	S3	94.5	120/60.0	644	30.37
60	1800	230/460	364T	U1877	364TTTS16534	√	20:1	S3	95.0	138/69.0	1078	31.50
75	1800	230/460	365T	U1878	365TTTS16536	√	20:1	S3	95.4	172/86.0	1169	32.50
100	1800	230/460	405T	U1879	405TTTS16537	√	20:1	S3	95.4	226/113	1458	37.12
125	1800	460	444T	U1880	444TTTN16535	√	20:1	S3	95.4	145	1990	43.35
150	1800	460	445T	U1881	445TTTN16536	√	20:1	S3	95.8	172	2343	43.35
200	1800	460	445T	U1882	445TTTN16537	√	20:1	S3	96.2	226	2556	43.35
250	1800	460	445T	U1884	449TTTS16539	√	20:1	S3	96.2	285	2409	43.26

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

*Requires nameplate modification
Blue shaded areas are Cast Iron Frames
Specifications are subject to change without notice.

Bearing Currents

As stated in NEMA MG1-31.4.4.3, to protect a motor from inverter-sourced shaft voltages, either both bearings must be insulated or the motor shaft must be effectively grounded. Marathon Motors offers several effective means to protect the bearings from inverter sourced EDM (electrical discharge machining). A Shaft Grounding device is standard in Blue Max® motors, in frame sizes 444T and larger. Insulating the motor bearings will not prevent damage to bearings of a connected load, and insulated couplings should be employed to protect the load. Adding a ground brush to a motor with insulated bearings will divert motor shaft currents and help protect the bearings of the connected load. At this time, UL policy prohibits the use of ground brushes or insulated bearings in Hazardous Locations (Div 1 & 2, Zones 1, 2, 21 & 22).

The Marathon Solution to Bearing Currents

Any motor with a "-P" suffix at the end of the catalog number and a "P" footnote features a current mitigation device.



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