

Inverter (Vector) Duty: microMAX™

1000:1 Constant Torque (TENV), 20:1 Constant Torque (TEFC)

Totally Enclosed



Applications: Designed for direct replacement of PMDC or any other variable speed application where up to a 1000:1 constant torque speed range is required. Typical uses include: machine tools, conveyors, packaging machines, batching machines, and printing equipment.

- Features:**
- Replaces 90 volt and 180 volt PMDC motors (when used with AC variable frequency drives)
 - Constant torque operation from 0 to base speed (TENV ratings)
 - Constant torque operation from 1/20 speed to base speed (TEFC ratings)
 - Constant horsepower to twice base speed (RPM)
 - Class H insulation with CR²⁰⁰ magnet wire
 - Removable base for C-Face footless mounting, as noted
 - Continuous duty at 40°C ambient
 - “Quick Connect” terminal board, as noted
 - Top mounted conduit box with pigtail leads (TEFC and 1.5 HP TENV)
 - Eliminates brush and commutator maintenance
 - UL Recognized, CSA Certified, and CE Mark
 - Three year warranty

C-Face Footless

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	“C” DIM.	FOOT NOTES
1/8	1800	230	56C	Y606	56H17T2022	*	\$220	E3	0.7	9.05	N,Q
1/4	1800	230	56C	Y501	56H17T2012	*	\$238	E3	1.0	9.80	N,Q
1/3	1800	230	56C	Y503	56H17T2014	*	\$256	E3	1.2	9.80	N,Q
1/2	1800	230	56C	Y505	56H17T2016		\$301	E3	1.8	10.55	N,Q
	1800	230/460	56C	Y374	56H17T2018	*	\$301	E3	1.8/0.9	10.55	N
	1800	575	56C	Y375	56H17T2020		\$301	E3	0.7	10.55	N,Q
3/4	1800	230	56C	Y507	56H17F2012		\$372	E3	2.8	11.19	
	1800	230/460	56C	Y376	56H17F2018	*	\$372	E3	2.8/1.4	11.19	
	1800	575	56C	Y377	56H17F2016		\$372	E3	1.1	11.19	
1	1800	230	56C	Y521	56H17F2014		\$419	E3	3.2	12.44	
	1800	230/460	56C	Y378	56H17F2022	*	\$419	E3	3.2/1.6	12.44	
	1800	575	56C	Y379	56H17F2020	*	\$419	E3	1.3	12.44	d

C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	“C” DIM.	FOOT NOTES
1/8	1800	230	56C	Y605	56H17T2021		\$220	E3	0.7	9.05	N,Q
1/4	1800	230	56C	Y500	56H17T2011	*	\$238	E3	1.0	9.80	N,Q
1/3	1800	230	56C	Y502	56H17T2013	*	\$256	E3	1.2	9.80	N,Q
1/2	1800	230	56C	Y504	56H17T2015	*	\$301	E3	1.8	10.55	N,Q
	1800	230/460	56C	Y360	56H17T2017	*	\$301	E3	1.8/0.9	10.55	N
	1800	575	56C	Y361	56H17T2019	*	\$301	E3	0.7	10.55	N,Q
3/4	1800	230	56C	Y506	56H17F2011	*	\$372	E3	2.8	11.19	
	1800	230/460	56C	Y362	56H17F2017	*	\$372	E3	2.8/1.4	11.19	
	1800	575	56C	Y363	56H17F2015		\$372	E3	1.1	11.19	
1	1800	230	56C	Y508	56H17F2013		\$419	E3	3.2	12.44	
	1800	230/460	56C	Y364	56H17F2021	*	\$419	E3	3.2/1.6	12.44	
	1800	575	56C	Y365	56H17F2019	*	\$419	E3	1.3	12.44	
1 1/2	1800	230	145TC	Y522	145THTR5328	*	\$521	E3	4.8	13.48	N,6
	1800	230/460	145TC	Y366	145THTR5329	*	\$521	E3	4.8/2.4	13.48	N,6
	1800	575	145TC	Y367	145THTR5330		\$521	E3	1.9	13.48	N,6
2	1800	230	145TC	Y523	145THFR5326		\$691	E3	5.8	14.87	6
	1800	230/460	145TC	Y368	145THFR5329	*	\$691	E3	5.8/2.9	14.87	6
	1800	575	145TC	Y369	145THFR5330	*	\$691	E3	2.3	14.87	6

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Inverter (Vector) Duty: microMAX™

1000:1 Constant Torque (TENV), 20:1 Constant Torque (TEFC)

Totally Enclosed

C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
3	1800	230	182/145TC	Y530	182THFR5326		\$815	E3	8.4	14.87	86,88
	1800	230	182TC	Y1998	182THFW7726		\$850	E3	7.8	14.97	6,13
	1800	230/460	182/145TC	Y370	182THFR5329	*	\$815	E3	8.4/4.2	14.87	86,88
	1800	230/460	182TC	Y999	182THFR7729	*	\$850	E3	8.4/4.2	16.19	d,6
	1800	230/460	182TC	Y1999	182THFW7729	*	\$850	E3	7.8/3.9	14.97	6,13
	1800	575	182/145TC	Y371	182THFR5330		\$815	E3	3.4	14.87	86,88
	1800	575	182TC	Y270	182THFR7730	*	\$850	E3	3.4	16.19	d,6
	1800	575	182TC	Y1270	182THFW7730	*	\$850	E3	2.9	14.97	6,13
5	1800	230/460	184TC	Y372	184THFR7726	*	\$967	E3	13.4/6.7	16.69	d,6
	1800	230/460	184TC	Y1372	184THFW7726	*	\$967	E3	12.8/6.4	15.97	6,13
	1800	575	184TC	Y373	184THFR7736	*	\$967	E3	5.4	16.69	d,6
	1800	575	184TC	Y1373	184THFW7736	*	\$967	E3	5.1	15.97	6,13
7 1/2	1800	230/460	213TC	Y994	213THFW7726	*	\$1,237	E3	21.4/10.7	20.97	6
	1800	575	213TC	Y995	213THFW7736		\$1,237	E3	8.5	20.97	6
10	1800	230/460	215TC	Y996	215THFW7726	*	\$1,582	E3	27.6/13.8	22.22	6
	1800	575	215TC	Y997	215THFW7736		\$1,582	E3	11.1	22.22	6

Inverter (Vector) Duty: Max + (with Encoder)

1000:1 Constant Torque, Totally Enclosed



Applications: The **MAX+** incorporates low rotor inertia for fast starts, stops, and reversals. Coupled with an encoder, this motor is useful in applications traditionally served only by servo systems. The **MAX+** is also suitable for all applications where up to a 1000:1 Constant Torque speed range or positioning is required.

Features:

- **Integrated Dynapar HS20 1024 ppr encoder**
- Class F insulation with CR200 corona resistant magnet wire
- Constant Torque operation from 0 to base speed on Vector Drive
- Constant Horsepower operation up to twice base RPM
- Continuous duty at 40 °C ambient
- Optimized for operation with IGBT inverter
- Removable base for C-Face footless mounting, as noted
- Ball bearings
- Field reversible to F2 (except as noted)
- UL Recognized, CSA Certified, and CE Mark
- Three year warranty

C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	ENCODER PPR	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
1/2	1800	230/460	56C	1024	Y280	56H17T15526	*	\$928	E3	1.6/8	13.48	S,6,13
3/4	1800	230/460	56C	1024	Y281	56H17T15528	*	\$971	E3	2.4/1.2	13.48	S,6,13
1	1800	230/460	56C	1024	Y282	56H17T15527	*	\$1,028	E3	3/1.5	14.98	S,6,13
	1800	230/460	143TC	1024	Y283	143THTR15535	*	\$1,107	E3	3/1.5	15.04	S,6,13
1 1/2	1800	230/460	145TC	1024	Y284	145THTR15540	*	\$1,224	E3	4/2	16.04	S,6,13
2	1800	230/460	145TC	1024	Y285	145HTN17034	*	\$1,642	E3	6/3	14.68	
3	1800	230/460	182TC	1024	Y286	182HTL17041	*	\$1,845	E3	8.4/4.2	17.39	AL
5	1800	230/460	184TC	1024	Y287	184HTL17038	*	\$2,008	E3	14/7	18.94	AL

INVERTER DUTY

Inverter (Vector) Duty: Black Max®

1000:1 Constant Torque, Totally Enclosed



Applications: Designed for inverter or vector applications where up to a 1000:1 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.

- Features:**
- MAX GUARD® Class F insulation system
 - Constant Torque operation from 0 to base speed on Vector Drive
 - Constant Horsepower operation up to twice base RPM
 - Continuous duty at 40°C ambient
 - Optimized for operation with IGBT inverter (NEMA Design A)
 - Normally closed thermostats (one per phase, Class F)
 - Removable rigid base, as noted
 - Ball Bearings
 - Field reversible to F2 (except as noted)
 - Encoder and brake provisions included on opposite drive end (maximum 10 lb-ft brake, see Modifications and/or Accessory Kits sections)
 - UL Recognized, CSA Certified, and CE Mark
 - Three year warranty



C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
1/4	1800	230/460	56C	TSTAT	Y592	56H17T2001	★	\$349	E3	1.2/0.6	11.88	S,13
1/2	1800	230/460	56C	TSTAT	Y534	56H17T5301	★	\$437	E3	1.6/0.8	13.48	S,6,13
	1800	575	56C	TSTAT	Y555	56H17T5311	★	\$437	E3	0.6	13.48	S,6,13
1	1800	230/460	56C	TSTAT	Y535	56H17T5302	★	\$521	E3	3.0/1.5	14.98	S,6,13
	1800	575	56C	TSTAT	Y556	56H17T5312	★	\$521	E3	1.2	14.98	S,6,13
	1800	230/460	143TC	TSTAT	Y536	143THTR5326	★	\$535	E3	3.0/1.5	15.04	S,6,13
	1200	230/460	145TC	TSTAT	Y537	145THTR5376	★	\$620	E3	3.8/1.9	16.04	S,6,13
1 1/2	1800	230/460	145TC	TSTAT	Y538	145THTR5326	★	\$650	E3	4.8/2.4	16.04	S,6,13
2	1800	230/460	145TC	TSTAT	Y551	145THTN6046	★	\$898	E3	6.0/3.0	14.68	
	1800	575	145TC	TSTAT	Y557	145THTN6060	★	\$898	E3	2.4	14.68	
	1200	230/460	184TC	TSTAT	Y540	184THTL7776	★	\$1,284	E3	6.6/3.3	16.94	AL
3	1800	230/460	182TC	TSTAT	Y541	182THTL7726	★	\$1,113	E3	8.4/4.2	17.39	AL
	1800	575	182TC	TSTAT	Y558	182THTL7736	★	\$1,113	E3	3.4	17.39	AL
	1200	230/460	213TC	TSTAT	Y542	213THTL7776	★	\$1,582	E3	9.4/4.7	19.94	AL
5	1800	230/460	184TC	TSTAT	Y543	184THTL7726	★	\$1,329	E3	14.0/7.0	18.94	AL
	1800	575	184TC	TSTAT	Y559	184THTL7736	★	\$1,329	E3	5.6	18.94	AL
	1200	230/460	215TC	TSTAT	Y544	215THTL7776	★	\$1,924	E3	15.4/7.7	20.54	AL
7 1/2	1800	230/460	213TC	TSTAT	Y545	213THTL7726	★	\$1,745	E3	21.0/10.5	20.54	AL
	1800	575	213TC	TSTAT	Y560	213THTL7736	★	\$1,745	E3	8.4	20.54	AL
	1200	230/460	254TC	TSTAT	Y546	254THTL5776	★	\$2,588	E3	22.0/11.0	25.37	AL,I
10	1800	230/460	215TC	TSTAT	Y547	215THTL7726	★	\$2,087	E3	27.0/13.5	23.04	AL
	1800	575	215TC	TSTAT	Y561	215THTL7736	★	\$2,087	E3	10.8	23.04	AL
	1200	230/460	256TC	TSTAT	Y548	256THTL5776	★	\$2,930	E3	28.0/14.0	26.87	AL,I
15	1800	230/460	254TC	TSTAT	Y549	254THTL5726	★	\$2,484	E3	40.0/20.0	26.87	I,AL
	1800	575	254TC	TSTAT	Y562	254THTL5736	★	\$2,484	E3	16.0	26.87	I,AL
20	1800	230/460	256TC	TSTAT	Y552	256THTNA7026	★	\$3,626	E3	52.0/26.0	27.13	
	1800	575	256TC	TSTAT	Y563	256THTNA7036	★	\$3,626	E3	20.8	27.13	
25	1800	230/460	284TC	TSTAT	Y553	284THTNA7026	★	\$3,944	E3	62.0/31.0	27.08	I
	1800	575	284TC	TSTAT	Y567	284THTNA7036	★	\$3,944	E3	24.8	27.08	d, I
30	1800	230/460	286TC	TSTAT	Y393	286THTNA7026	★	\$4,447	E3	74.0/37.0	28.58	I
	1800	575	286TC	TSTAT	Y394	286THTNA7036	★	\$4,447	E3	29.6	28.58	d, I

Blue shaded areas are Cast Iron Frames

Contact Marathon for other base speeds and options not shown in this catalog.

INVERTER DUTY

Inverter (Vector) Duty: Black Max® Explosion Proof 1000:1 Constant Torque, Totally Enclosed

Class I and II (gases and dust), Groups C, D, F & G



Applications: For use in material handling, machine tools, conveyors, crane & hoist, and other variable speed applications requiring up to 1000:1 constant torque speed range, to be installed in hazardous environments as defined by the motor's explosion proof class and group rating. Refer to the General Information sections contained in this catalog for information on explosion proof classifications. Consult the National Electrical Code and your local regulations for the proper selection of motors in hazardous locations.

Features:

- MAX GUARD® Class F insulation system
- Constant torque operation from 0 to base speed on vector drive
- Constant HP operation to twice base RPM
- Continuous duty at 40°C ambient
- Optimized for operation with IGBT inverter (NEMA Design A)
- Normally closed thermostats (one per phase, Class F)
- Ball Bearings
- Top mount (F3) conduit box included, shipped loose
- No Encoder Provisions provided
- Meets temperature code T3B
- UL listed, under file #E12044
- CSA certified, under file numbers LR47504 and LR21839
- Three year warranty



C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
1/4	1800	230/460	56C	TSTAT	Y600	56H17E5301	★	\$520	E3	1.1/0.55	11.97	
1/3	1800	230/460	56C	TSTAT	Y601	56H17E5302	★	\$610	E3	1.2/0.6	11.97	
1/2	1800	230/460	56C	TSTAT	Y602	56H17E5303	★	\$658	E3	1.6/0.8	12.47	
3/4	1800	230/460	56C	TSTAT	Y603	56H17E5304	★	\$728	E3	2.4/1.2	13.47	
1	1800	230/460	56C	TSTAT	Y604	56H17E5305	★	\$797	E3	3.0/1.5	13.97	

Contact Marathon Electric for other base speeds and options not shown in this catalog.

Inverter (Vector) Duty: Blue Max® 2000

2000:1 Constant Torque, Totally Enclosed



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 (Class H on catalog models only)
 - 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	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
1	1800	230/460	TENV	143TC	Y525	143THTN8028	★	\$938	E3	3.0/1.5	13.68	B
1 1/2	1800	230/460	TENV	145TC	Y590	145THTN8037	★	\$943	E3	4.6/2.3	14.68	
2	1800	230/460	TENV	145TC	Y526	145THTN8029	★	\$1,016	E3	6.0/3.0	14.68	
3	1800	230/460	TENV	182TC	Y527	182THTS8028	★	\$1,276	E3	8.0/4.0	16.68	
5	1800	230/460	TENV	184TC	Y564	184THTS8028	★	\$1,427	E3	13.4/6.7	17.68	
7 1/2	1800	230/460	TEFC	213TC	Y595	213THFS8028	★	\$1,669	E3	19.4/9.7	21.03	
	1800	230/460	TENV	213TC	Y565	213THTS8038	★	\$1,922	E3	21.0/10.5	20.56	
10	1800	230/460	TEFC	215TC	Y596	215THFS8029	★	\$1,994	E3	25.4/12.7	22.53	
	1800	230/460	TENV	215TC	Y566	215THTS8038	★	\$2,280	E3	26.0/13.0	22.74	
15	1800	230/460	TEFC	254TC	Y597	254THFNA8038	★	\$2,402	E3	37.0/18.5	26.34	
	1800	230/460	TENV	254TC	Y509	254THTNA8058	★	\$2,729	E3	40.4/20.2	23.38	
	1200	230/460	TEBC	284TC	Y395	284THFPA8086		\$5,354	E3	40.0/20.0	37.48	BP
20	1800	230/460	TEFC	256TC	Y598	256THFNA8038	★	\$2,658	E3	52.0/26.0	28.09	
	1800	230/460	TENV	256TC	Y510	256THTNA8038	★	\$3,777	E3	52.0/26.0	27.13	
	1200	230/460	TEBC	286TC	Y582	286THFPA8086		\$6,921	E3	52.4/26.2	38.98	BP
25	1800	230/460	TEFC	284T	Y569	284THFPA8028	★	\$3,319	E3	63.0/31.5	28.58	
	1800	230/460	TEBC	284TC	Y511	284THFPA8038	★	\$4,639	E3	63.0/31.5	37.48	BP
	1200	230/460	TEBC	324TC	Y583	324THFPA8086		\$8,141	E3	67.0/33.5	40.41	B,BP
30	1800	230/460	TEFC	286T	Y570	286THFNA8028	★	\$3,794	E3	77.0/38.5	29.91	
	1800	230/460	TEBC	286TC	Y512	286THFPA8038	★	\$5,114	E3	74.0/37.0	38.98	BP
	1200	230/460	TEBC	326TC	Y584	326THFPA8086		\$8,956	E3	80.4/40.2	41.91	B,BP
40	1800	230/460	TEFC	324T	Y571	324THFPA8028	★	\$4,913	E3	100/50.0	30.71	
	1800	230/460	TEBC	324TC	Y513	324THFPA8038	★	\$6,126	E3	100/50.0	40.41	BP
	1200	230/460	TEBC	364TC	Y585	364THFS8391		\$10,804	E3	107/53.5	42.67	BP
50	1800	230/460	TEFC	326T	Y572	326THFS8028	★	\$6,078	E3	121/60.5	32.44	
	1800	230/460	TEBC	326TC	Y514	326THFPA8038	★	\$7,023	E3	120/60.0	41.91	BP
	1200	230/460	TEBC	365TC	Y586	365THFS8380		\$12,951	E3	130/65.0	43.78	BP
60	1800	230/460	TEFC	364T	Y573	364THFS8036	★	\$7,834	E3	147/73.5	33.70	
	1800	230/460	TEBC	364TC	Y515	364THFS8046	★	\$8,598	E3	147/73.5	42.67	BP
	1200	230/460	TEBC	404TC	Y587	404THFS8092		\$14,367	E3	142/71.0	48.22	BP
75	1800	230/460	TEFC	365T	Y574	365THFS8036	★	\$8,875	E3	184/92.0	34.69	
	1800	230/460	TEBC	365TC	Y516	365THFS8046	★	\$10,278	E3	180/90.0	43.67	BP
	1200	230/460	TEBC	405TC	Y588	405THFS8378	★	\$17,505	E3	180/90.0	49.72	B,BP

Blue shaded areas are Cast Iron Frames

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INVERTER DUTY

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

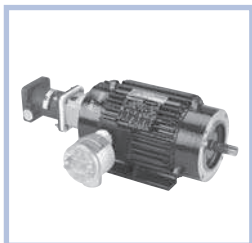
Rigid Base and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	ENCL	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
100	1800	230/460	TEFC	405T	Y575	405THFS8036	★	\$12,009	E3	230/115	39.32	
	1800	230/460	TEBC	405TC	Y517	405THFS8046	★	\$14,347	E3	230/115	49.72	BP
	1200	230/460	TEBC	444TC	Y589	444THFN8384	★	\$20,092	E3	250/125	52.72	BP
125	1800	460	TEFC	444T	Y576	444THFN8036	★	\$15,805	E3	143	43.27	
	1800	460	TEBC	444T	Y518	444THFN8046	★	\$18,283	E3	138	52.72	B,BP
150	1800	460	TEFC	445T	Y577	445THFN8036	★	\$18,248	E3	170	45.27	
	1800	460	TEBC	445T	Y519	445THFN8046	★	\$20,725	E3	170	54.72	BP
200	1800	460	TEFC	445T	Y578	445THFN8040	★	\$22,027	E3	230	45.27	
	1800	460	TEBC	445T	Y520	445THFN8050	★	\$24,504	E3	230	54.72	BP
250	1800	460	TEFC	449T	Y579	449THFS8036		\$27,437	E3	280	53.89	CT
	1800	460	TEBC	449T	Y531	449THFS8046	★	\$30,693	E3	295	63.21	BP
300	1800	460	TEFC	449T	Y580	449THFS8037		\$31,240	E3	330	53.89	CT
	1800	460	TEBC	449T	Y532	449THFS8047	★	\$34,496	E3	327	63.21	BP
350	1800	460	TEBC	449T	Y533	449THFS8048	★	\$37,753	E3	385	63.21	BP

Blue shaded areas are Cast Iron Frames

Inverter (Vector) Duty: Blue Max® 2000 Explosion Proof (with Encoder) 2000:1 Constant Torque, Totally Enclosed

Class I and II (gases and dust), Groups C (as noted), D, F & G



Applications: Designed for industrial applications with Vector Drives where up to a 2000:1 constant torque speed range and/or precise speed or torque regulation is required, including positioning equipment. Used in dirty, dusty or caustic environments where cast iron construction is required, and 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 locations.

- Features:**
- BEI H38 explosion proof encoder 1024 ppr, Class I Groups C & D, Class II Groups E, F, G included
 - MAX GUARD® Class F insulation system
 - Constant torque operation from 0 to base speed on vector drive
 - Constant HP operation up to twice base speed
 - Continuous duty at 40°C ambient
 - Optimized for operation with IGBT inverter (NEMA Design A)
 - Normally closed thermostats (one per phase, Class F)
 - Ball Bearings
 - Cast iron frame and brackets
 - F1 standard, NOT field reversible to F2
 - UL Listed File No. E12044, MC228275
 - CSA Certified File No. LR47504, MC236833
 - Meets temperature code T3B
 - Three year warranty

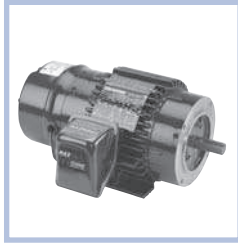


C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	FOOT NOTES
1	1800	230/460	143TC	TSTAT	Y978	143THEN8034		\$5,435	E3	3.0/1.5	21.44	
2	1800	230/460	145TC	TSTAT	Y979	145THEN8034	★	\$5,549	E3	5.8/2.9	21.44	
3	1800	230/460	182TC	TSTAT	Y980	182THES8048	★	\$5,728	E3	8.2/4.1	24.82	
5	1800	230/460	213TC	TSTAT	Y981	213THES8053	★	\$6,026	E3	13.0/6.5	27.42	
7 1/2	1800	230/460	254TC	TSTAT	Y982	254THEN8058	★	\$6,853	E3	22/11	30.20	CD
10	1800	230/460	254TC	TSTAT	Y983	254THEN8059	★	\$7,180	E3	27.0/13.5	30.20	CD
15	1800	230/460	256TC	TSTAT	Y984	256THEN17031		\$7,506	E3	36.0/18.0	31.95	CD
20	1800	230/460	284TC	TSTAT	Y985	284THEN8032		\$8,285	E3	53/26.5	33.16	CD

Blue shaded areas are cast iron frames.

Inverter (Vector) Duty: Blue Max® 2000 Brakemotors 2000:1 Constant Torque, totally Enclosed



Applications: Designed for vector applications where up to a 2000:1 constant torque speed range is required. For use on Conveyors, Machine tools, Cranes, Hoists, and other industrial machinery requiring quick stop and/or holding torque.

- Features:**
- MAX GUARD® Class F insulation system
 - Constant torque operation from 0 to base speed on vector drive
 - Constant HP operation to twice base speed
 - Optimized for operation with IGBT inverter (NEMA Design A)
 - Normally closed thermostats (one per phase, Class F)
 - Ball Bearings
 - Continuous duty at 40°C ambient
 - Will accept encoder through Mod Central (see mod 24 for encoder mounting)
 - Includes 140% rated spring-set self-adjusting NEMA 2 disk brake (Brake coil voltage matches motor)
 - Horizontal mounting (see comment below and Mod Central for vertical mounting)
 - UL Recognized, CSA Certified, and CE Mark
 - Three year warranty (brake disks are exempt)

C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	"C" DIM.	BRAKE TQ. (LB/FT)
1	1800	230/460	143TC	Y986	143THTN8036	*	\$1,696	E3	3.0/1.5	17.00	6
2	1800	230/460	145TC	Y987	145THTN8043	*	\$1,889	E3	6.0/3.0	18.00	10
3	1800	230/460	182TC	Y988	182THTS8048	*	\$2,473	E3	8.2/4.1	19.67	15
5	1800	230/460	184TC	Y989	184THTS8056	*	\$2,981	E3	13.4/6.7	25.58	25
7 1/2	1800	230/460	213TC	Y990	213THTS8071	*	\$3,736	E3	21.0/10.5	27.58	35
10	1800	230/460	215TC	Y991	215THTS8071	*	\$4,440	E3	26.0/13.0	28.83	50
15	1800	230/460	254TC	Y992	254THTNA8071	*	\$5,642	E3	40.5/20.2	31.53	75
20	1800	230/460	256TC	Y993	256THTNA8071	*	\$7,478	E3	52.0/26.0	33.28	105

Blue shaded areas are Cast Iron Frames

1024 ppr Encoders through MOD Central

Multiplier Symbol E3

BRAND	MODEL	CAT. NO.	KIT NUMBER	STOCK	LIST (LOOSE)	LIST (INSTALLED)	FITS BRAKEMOTOR CAT. NO.
Avtron	M56	A748	KIT M561024BRK-140	*	\$2,038	\$2,338	Y986, Y987
		A749	KIT M561024BRK-182	*	\$2,038	\$2,338	Y988
	M85	A750	KIT M851024BRK-184	*	\$2,750	\$3,050	Y989
		A751	KIT M851024BRK-210	*	\$2,750	\$3,050	Y990, Y991
		A752	KIT M851024BRK-250	*	\$2,750	\$3,050	Y992, Y993
NorthStar	SL56	A786	KIT LKSR-CFACE	*	\$2,241	\$2,541	Y986, Y987
		A789	KIT SL561024-182NV	*	\$2,241	\$2,541	Y988
	SL85	A790	KIT SL851024-184NV	*	\$2,750	\$3,050	Y989
		A791	KIT SL851024-210NV	*	\$2,750	\$3,050	Y990, Y991
		A792	KIT SL851024-250NV	*	\$2,750	\$3,050	Y992, Y993

Vertical Mounting: 3 HP (182) and lower are suitable for shaft up or down.
5 HP (184) and larger, need vertical modification. Use Cat #: A157, KIT VRT87BRK (SEE MOD SECTION)

CAT. NO.	STOCK	MODEL NO.	LIST KIT ONLY	LIST INSTALLED
A157	*	KIT VRT87BRK	\$375	\$493