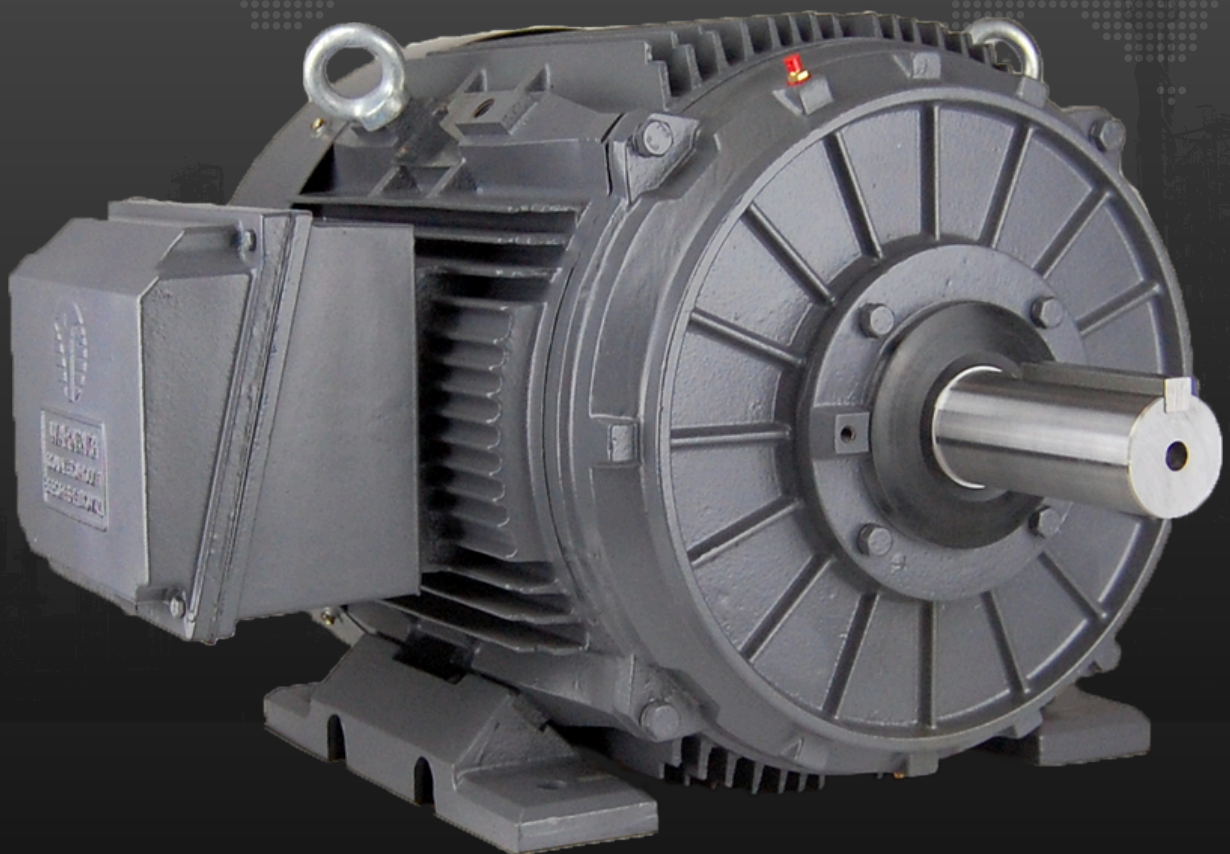




TECHTOP

electric motors



MOTOR CATALOG

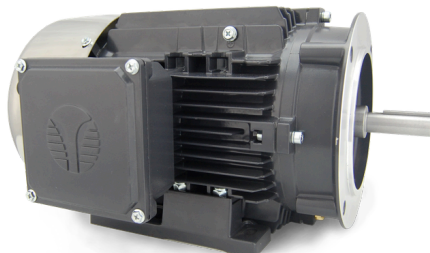
Why Should You Choose Us?



Motors & Relationships Built to Last
Quality is the main ingredient



Cast Iron



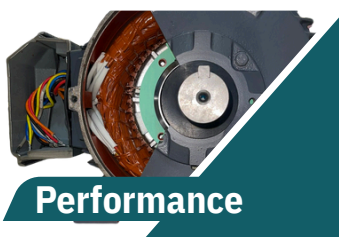
Cobra
Aluminum



Stainless Steel



Quality



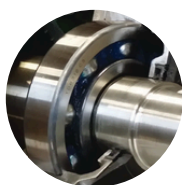
Performance



Availability



Customization



Dual Oversized Greaseable Bearings(250T & Larger)



Lap Winding



Cast Iron Inner & Outer Bearing Retainers



Face Drains for Vertical Shaft Up & Down Positions

Techtop Motors is one of the fastest-growing electric motor manufacturers in the industry today. Each Techtop motor is engineered with precision and built for durability, featuring advanced protection mechanisms to ensure long-lasting performance. With 12 stocking warehouses across the U.S. and a global presence in 13 other countries, we are committed to delivering reliability and efficiency when you need it most. Experience the power of quality and innovation—explore our motors today.

Wide Variety Products



Cobra
Single Phase



XR3



Explosion Proof



Aluminum



Pump Motor



Visit Us For More



www.techtopind.com



(678) 436-5540



orders@techtopind.com



TEFC – Cast Iron

p. 2–3



Cobra Line – Aluminum

p. 4–5



Cobra Line – Single Phase Aluminum

p. 6–7



Stainless Steel – Washdown (IP69K)

p. 8



TEFC – Aluminum

p. 9–10



TEFC – Metric IEC

p. 11–12



Metric IEC – Single Phase

p. 13–14



High Torque – Single Phase

p. 15



Open Drip Proof (ODP)

p. 17



JM/JP Pump Motors

p. 18



Crusher Duty

p. 19



IEEE 841

p. 20–21



Explosion Proof

p. 22–23



Aerator Motors

p. 24–25



Permanent Magnet DC Motors

p. 26



Phase Converter Idler

p. 28



Cooling Tower

p. 29



Washdown Duty

p. 30



High Slip Design D

p. 31



Constant Velocity Fan

p. 32



Brake Motors – TEFC

p. 33



Components

p. 34–37



VHS Series Motor

p. 38–39



Techtop Global Capabilities

p. 40–41



Terms and Conditions

p. 42

HP: 1–500

Pole: 2,4,6

Frame: 143T– 449T

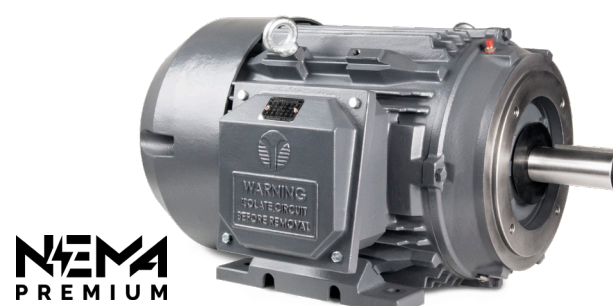
Volt: 230/460V

RPM: 3600,1800,1200

Body: T,TC



Shaft Grounding – GX3 Only*



STANDARD FEATURES

- NEMA Premium Energy Efficiency Design
- MG1 Part 31 Compliant for VFD use (15:1 CT)
- 2-Part Epoxy Coating - IP 55 Ingress Protection
- 1045 Steel Shaft (through 326T), 4140 (326T & up)
- Multi-mount Frame Design up to 320T (F1,F2,F0)
- Auto-purge Brass Condensation Drains
- 1.25 Service Factor to 50HP (1.15 for larger frames)
- DE and ODE Oversized Bearing
- Zerk fitting Regreasable Bearings 254T & Larger
- 90° Rotatable - Full Rubber Gasket Conduit Box
- Double Lip Shaft Seal Protection on DE & ODE

- VPI-Tropicalized- Lap-wound-Class H Stator
- Heavy Duty Cast Iron Fan Cover
- Oversized-Color Coded -Tagged - Class F Leads
- Rubber Shaft Slinger for Vertical Application
- Interchangable C & D Flanges Available
- Class 1, Div 2, Groups A, B, C & D Certified*
- EISA Regulation Compliant
- 40°C Ambient Temperature Rating
- 36 Month Warranty from Purchase Date
- Arc Arrestor Shaft Grounding Brush(GX3 Only)
- ODE Hybrid Ceramic Bearings (GX3 Only)

HP	Sync. Speed	Model Number	List Price	
			Rigid Base	C-Face / D-Flange
1	3600	GR3-CI-TF-143T-2-B-D-1	\$713	\$801
	1800	GR3-CI-TF-143T-4-B-D-1	\$713	\$801
	1200	GR3-CI-TF-145T-6-B-D-1	\$802	\$890
1.5	3600	GR3-CI-TF-143T-2-B-D-1.5	\$750	\$838
	1800	GR3-CI-TF-145T-4-B-D-1.5	\$775	\$863
	1200	GR3-CI-TF-182T-6-B-D-1.5	\$1,031	\$1,222
2	3600	GR3-CI-TF-145T-2-B-D-2	\$831	\$919
	1800	GR3-CI-TF-145T-4-B-D-2	\$829	\$917
	1200	GR3-CI-TF-184T-6-B-D-2	\$1,208	\$1,399
3	3600	GR3-CI-TF-182T-2-B-D-3	\$1,099	\$1,275
	1800	GR3-CI-TF-182T-4-B-D-3	\$1,125	\$1,308
	1200	GR3-CI-TF-213T-6-B-D-3	\$1,586	\$1,820
5	3600	GR3-CI-TF-184T-2-B-D-5	\$1,206	\$1,381
	1800	GR3-CI-TF-184T-4-B-D-5	\$1,218	\$1,393
	1200	GR3-CI-TF-215T-6-B-D-5	\$1,984	\$2,208

HP	Sync. Speed	Model Number	List Price	
			Rigid Base	C-Face / D-Flange
7.5	3600	GR3-CI-TF-213T-2-B-D-7.5	\$1,694	\$1,918
	1800	GR3-CI-TF-213T-4-B-D-7.5	\$1,790	\$2,024
	1200	GR3-CI-TF-254T-6-BR-D-7.5	\$2,575	\$2,839
10	3600	GR3-CI-TF-215T-2-B-D-10	\$1,942	\$2,166
	1800	GR3-CI-TF-215T-4-B-D-10	\$2,047	\$2,281
	1200	GR3-CI-TF-256T-6-BR-D-10	\$3,208	\$3,461
15	3600	GR3-CI-TF-254T-2-BR-D-15	\$2,956	\$3,220
	1800	GR3-CI-TF-254T-4-BR-D-15	\$2,961	\$3,225
	1200	GR3-CI-TF-284T-6-BR-D-15	\$4,011	\$4,337
20	3600	GR3-CI-TF-256T-2-BR-D-20	\$3,434	\$3,698
	1800	GR3-CI-TF-256T-4-BR-D-20	\$3,326	\$3,579
	1200	GR3-CI-TF-286T-6-BR-D-20	\$4,585	\$4,911
25	3600	GR3-CI-TF-284TS-2-BR-D-25	\$3,925	\$4,251
	1800	GR3-CI-TF-284T-4-BR-D-25	\$3,971	\$4,296
	1200	GR3-CI-TF-324T-6-BR-D-25	\$6,037	\$6,514

* GX3 models (highlighted gray) require removal of internal Grounding Brush. Note requirement on your order.

HP	Sync. Speed	Model Number	List Price	
			Rigid Base	C-Face / D-Flange
30	3600	GR3-CI-TF-286TS-2-BR-D-30	\$4,693	\$5,019
	1800	GR3-CI-TF-286T-4-BR-D-30	\$4,680	\$5,005
	1200	GR3-CI-TF-326T-6-BR-D-30	\$6,997	\$7,475
40	3600	GR3-CI-TF-324TS-2-BR-D-40	\$5,968	\$6,445
	1800	GR3-CI-TF-324T-4-BR-D-40	\$6,121	\$6,599
	1200	GR3-CI-TF-364T-6-BR-D-40	\$8,407	\$9,072
50	3600	GR3-CI-TF-326TS-2-BR-D-50	\$7,036	\$7,514
	1800	GR3-CI-TF-326T-4-BR-D-50	\$7,283	\$7,760
	1200	GR3-CI-TF-365T-6-BR-D-50	\$10,537	\$11,202
60	3600	GR3-CI-TF-364TS-2-BR-D-60	\$9,688	\$10,353
	1800	GR3-CI-TF-364T-4-BR-D-60	\$9,701	\$10,367
	1200	GR3-CI-TF-404T-6-RR-D-60	\$12,416	\$-
75	3600	GR3-CI-TF-365TS-2-BR-D-75	\$11,285	\$11,950
	1800	GR3-CI-TF-365T-4-BR-D-75	\$11,481	\$12,146
	1800	GR3-CI-TF-365T-4-RR-D-75	\$11,481	\$-
	1200	GR3-CI-TF-405T-6-RR-D-75	\$13,467	\$-
100	3600	GR3-CI-TF-405TS-2-BR-D-100	\$13,724	\$14,558
	1800	GR3-CI-TF-405T-4-BR-D-100	\$13,788	\$14,622
	1800	GR3-CI-TF-405T-4-RR-D-100	\$13,788	\$-
	1800	GR3-CI-TF-405TS-4-BR-D-100	\$20,886	\$-
	1200	GR3-CI-TF-444T-6-RR-D-100	\$20,839	\$21,887
125	3600	GR3-CI-TF-444TS-2-BR-E-125	\$20,960	\$22,009
	1800	GR3-CI-TF-444T-4-BR-E-125	\$20,960	\$-
	1800	GR3-CI-TF-444T-4-RR-E-125	\$23,067	\$-
	1800	GR3-CI-TF-444TS-4-BR-E-125	\$24,331	\$25,904
	1200	GR3-CI-TF-445T-6-RR-E-125	\$23,067	\$-

HP	Sync. Speed	Model Number	List Price	
			Rigid Base	C-Face / D-Flange
150	3600	GR3-CI-TF-445TS-2-BR-E-150	\$24,856	\$25,905
	1800	GR3-CI-TF-445T-4-BR-E-150	\$25,059	\$26,107
	1800	GR3-CI-TF-445T-4-RR-E-150	\$25,059	\$-
	1800	GR3-CI-TF-445TS-4-BR-E-150	\$30,703	\$31,837
	1200	GR3-CI-TF-447T-6-RR-E-150	\$29,157	\$-
200	3600	GR3-CI-TF-447TS-2-BR-E-200	\$29,880	\$30,928
	1800	GR3-CI-TF-447T-4-BR-E-200	\$31,328	\$32,376
	1800	GR3-CI-TF-447T-4-RR-E-200	\$31,834	\$-
	1200	GR3-CI-TF-449T-6-RR-E-200	\$36,451	\$-
250	3600	GR3-CI-TF-449TS-2-BR-E-250	\$33,906	\$-
	1800	GR3-CI-TF-449T-4-BR-E-250	\$35,550	\$36,900
	1800	GR3-CI-TF-449T-4-RR-E-250	\$36,056	\$36,900
	1200	GX3-CI-TF-449T-6-RR-E-250	\$53,681	\$-
300	3600	GX3-CI-TF-449TS-2-BR-E-300	\$46,083	\$47,489
	1800	GR3-CI-TF-449T-4-BR-E-300	\$43,146	\$44,496
	1800	GR3-CI-TF-449T-4-RR-E-300	\$43,821	\$-
	1200	GX3-CI-TF-449T-6-RR-E-300	\$59,683	\$61,089
350	3600	GX3-CI-TF-449TS-2-BR-E-350	\$51,869	\$53,275
	1800	GX3-CI-TF-449T-4-RR-E-350	\$60,225	\$61,631
	1200	GX3-CI-TF-449T-6-RR-E-350	\$67,796	\$69,202
400	3600	GX3-CI-TF-449TS-2-BR-E-400	\$58,135	\$59,541
	1800	GX3-CI-TF-449T-4-RR-E-400	\$69,767	\$71,173
450	3600	GX3-CI-TF-449TS-2-BR-E-450	\$61,655	\$63,061
	1800	GX3-CI-TF-449T-4-RR-E-450	\$74,122	\$75,528
500	3600	GX3-CI-TF-449TS-2-BR-E-500	\$65,275	\$66,682
	1800	GX3-CI-TF-449T-4-RR-E-500	\$77,740	\$79,146

Multiplier Code: G1

MOTOR MODIFICATIONS

Mod. Model # + Frame Adder	Description	Frame Sizes (List Price)										
		NEMA	143/5T	182/4T	213/5T	254/6T	284/6T	324/6T	364/5T	404/5T	444/5T	447/9T
		IEC	90	100/12	132	160	180	200	225	250	280	
MODFGADT	C-Face or D-Flange Adaption + Kit		\$561	\$611	\$661	\$711	\$832	\$1,065	\$1,416	\$1,691	\$2,022	\$2,022
MODTB	Terminal Blocks (6 Post)		\$306	\$316	\$357	\$431	\$431	\$486	\$486	\$567	\$1,306	\$1,306
MODF2F3	F-1 to F-2 Conversion		\$711	\$711	\$711	\$711	\$711	\$904	\$904	\$1,777	\$1,777	\$1,777
MODTFCAO	TEFC to TEOA Conversion		\$646	\$646	\$646	\$797	\$797	\$948	\$1,120	\$1,594	\$1,938	\$1,938
MODCT	TEFC to TEOA Cooling Tower		\$1,092	\$1,142	\$1,192	\$1,393	\$1,443	\$1,643	\$1,866	\$2,389	\$2,834	\$2,834
MODTS	Shaft Reduction T to TS		\$2,771	\$2,771	\$2,771	\$2,771	\$2,771	\$3,166	\$3,166	\$3,166	-	\$3,695
MODSH	Space Heaters		\$892	\$892	\$892	\$892	\$892	\$1,066	\$1,066	\$1,240	\$1,324	\$1,324
			40W	40W	40W	60W	60W	80W	80W	100W	120W	120W
MODRLR	Ball to Roller Bearing		-	-	-	\$2,067	\$2,520	\$2,939	\$3,456	\$3,682	\$6,396	\$6,396
MODBALL	Roller to Ball Bearing		-	-	-	\$1,066	\$1,421	\$1,680	\$2,035	\$2,293	\$3,359	\$3,359
MODWTS	Winding Thermostats		\$1,001	\$1,001	\$1,001	\$1,169	\$1,208	\$1,421	\$1,421	\$1,673	\$1,848	\$1,848
MODPTC	Winding PTC		\$1,001	\$1,001	\$1,001	\$1,169	\$1,208	\$1,421	\$1,421	\$1,673	\$1,848	\$1,848
MODWTRTD	Winding RTDs		\$1,764	\$1,764	\$1,764	\$1,990	\$1,990	\$2,243	\$2,243	\$2,487	\$2,578	\$2,578
MODBRTD	Bearing RTDs		\$1,764	\$1,764	\$1,764	\$1,990	\$1,990	\$2,243	\$2,243	\$2,487	\$2,578	\$2,578
MODWD	Washdown Conversion		\$1,151	\$1,251	\$1,351	\$1,511	\$1,611	\$1,771	\$1,940	\$2,229	\$2,566	\$2,567
MODINPRO	Drive End Inpro-Seal install		\$1,820	\$1,974	\$2,313	\$2,636	\$2,577	\$2,806	\$3,047	\$3,744	\$4,444	\$5,143
MODCOAT	Repainting motor(Epoxy or Poly)		\$705	\$755	\$805	\$915	\$965	\$1,075	\$1,194	\$1,433	\$1,621	\$1,671
Frame Adder:			143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/5	447/9

Lift Strap

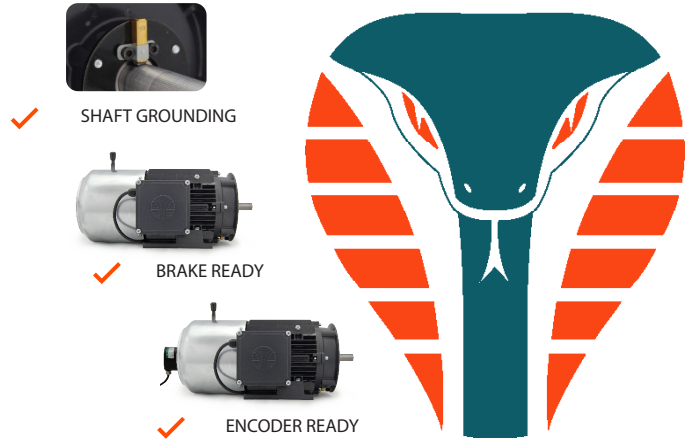


included with 254T & Larger



ALUMINUM SERIES

1/3 - 3 HP, Premium Efficiency, Three Phase



SPECIFICATIONS

Basic Specifications

- NEMA Premium Efficiency
- Power Ratings from 0.33 to 3 HP
- Three Phase, 2 and 4 Pole
- 60 Hz (50 Hz Capable)
- 230/460V 60 Hz (Usable @ 208V)
- Totally Enclosed Fan Cooled (TEFC)

Operating Parameters

- Continuous (S1) Duty
- Ambient Temperatures up to 40°C
- Installation up to 3300ft

Ingress Protection

- IP 55

Inverter and Insulation Rating

- Inverter Rated 15:1 Constant Torque (1.0 S.F. on VFD Power) per NEMA MG 1 Part 31
- Class F Insulation
- Designed to Class B temperature rise
- Vacuum Pressure Impregnated Stator



MOTOR FEATURES

Motor Features

- Arc Arrestor Shaft Grounding Brush
- Fully Epoxy Potted Conduit Box Entry
- Stainless Steel Anti-Corrosion Fan Cover
- Brake Kit Ready, Encoder installation available
- PTC Thermal Protection Installed
- Multi-mount Removable feet F1, F2, F0 convertible
- 1.25 Service Factor with 60Hz TEFC operation
- Conduit Box 90° rotatable
- Full Die-Cast Aluminum Frame
- Anti-microbial (tropicalization) coating on stator
- Over-sized shielded bearings
- Viton Double Lip Oil Seal
- TENV Capable at 1.0 SF
- 1045 steel shaft
- Stainless steel nameplate
- Corrosion resistant Blue Zinc hardware
- Class 1, Division II, Groups A, B, C and D Compliant*

Surface Finish

- Powder Coated RAL7024 - Graphite Gray

Warranty

- 36 Months from date of purchase

* Requires removal of internal Grounding Brush. Note requirement on your order.

COBRA Line Aluminum Series

1/3 - 3 HP, Premium Efficiency, Three Phase (TEFC)

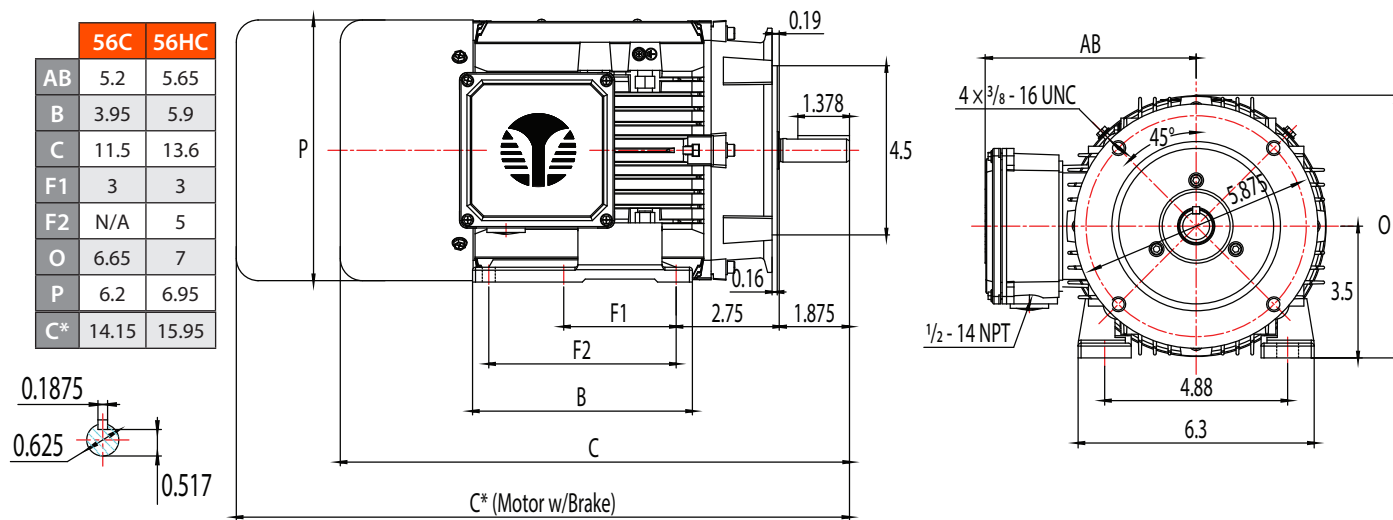


PURCHASING DATA

HP	Model	Sync. RPM	NEMA Frame	Full Load Current I _L (A)		Full Load Eff. (%)	Encl.	Weight (lbs.)	"C" Dim. Inches	List Price	
				230V	460V					Rigid	C-Face
1/3	CB3-AL-TF-56C-2-B-D-.33	3600	56C	1.24	0.62	72	TEFC	14.9	11.5	—	\$570
	CB3-AL-TF-56C-4-B-D-.33	1800	56C	1.34	0.67	74	TEFC	15.8	11.5	—	\$554
1/2	CB3-AL-TF-56C-2-B-D-.5	3600	56C	1.74	0.87	74	TEFC	15.5	11.5	—	\$599
	CB3-AL-TF-56C-4-B-D-.5	1800	56C	1.80	0.90	78.5	TEFC	17.7	11.5	—	\$583
3/4	CB3-AL-TF-56C-2-B-D-.75	3600	56C	2.40	1.20	77	TEFC	17.1	11.5	—	\$638
	CB3-AL-TF-56C-4-B-D-.75	1800	56C	2.50	1.25	78.5	TEFC	20.2	11.5	—	\$633
1	CB3-AL-TF-56C-2-B-D-1	3600	56C	3.10	1.55	79	TEFC	18.2	11.5	—	\$669
	CB3-AL-TF-56C-4-B-D-1	1800	56C	3.18	1.59	85	TEFC	25.7	11.5	—	\$716
1.5	CB3-AL-TF-56C-2-B-D-1.5	3600	56C	3.90	1.95	84	TEFC	24.1	11.5	—	\$699
	CB3-AL-TF-56HC-4-B-D-1.5	1800	56C	4.26	2.13	86.5	TEFC	34.5	13.6	—	\$937
2	CB3-AL-TF-56C-2-B-D-2	3600	56C	5.24	2.62	85.5	TEFC	26.5	11.5	—	\$746
	CB3-AL-TF-56HC-4-B-D-2	1800	56C	5.72	2.86	85.5	TEFC	39.5	13.6	—	\$983
3	CB3-AL-TF-56HC-2-B-D-3	3600	56C	7.26	3.63	86.5	TEFC	38.0	13.6	—	\$1,037

Multiplier Code: CB

COBRA DIMENSIONS



Spring-applied Electromagnetic Brakes

- Spring-applied and dry-friction electromagnetic brakes
- Release when energized and braking when power cut off
- Kit includes: Brake, Rectifier, Chrome Fan Cover, Shaft Extension



Size	NEMA Frame	Holding Torque	6 Pole Full Wave Rectifier Voltage	List Price	
				Kit	Installed
BRK56-12-VVV	56	12 NM (8.85 ft-lbs)	*230=208V/230V 460=460V 575=575V	\$655	\$1,166
BRK56H/140-23-VVV	56H/140T	23 NM (16.96 ft-lbs)		\$807	\$1,318

"VVV" = AC Voltage Input
* = Ship Standard



TECHTOP SINGLE PHASE ALUMINUM

electric motors

HP: 1/3–10

Frame: 56C-215T

RPM: 1800, 3600

Pole: 2, 4

Volt: 115/208–230



MOTOR FEATURES

- NEMA Premium Efficiency
- IP55
- High Efficiency Dual Cap Design
- Solid State Start Switch
- Stainless Steel Anti-Corrosion Fan Cover
- Multi-mount Removable feet F1,F2,F3 convertible
- 1.15 Service Factor with 60Hz TEFC operation
- Die-Cast Aluminum Frame
- Anti-microbial (tropicalization) coating on stator
- Over sized shielded bearings
- Viton Double Lip Shaft Seal
- 1045 steel shaft
- Stainless steel nameplate
- Corrosion resistant Blue Zinc hardware
- Powder Coated RAL7024 - Graphite Gray
- 18 Month Warranty from date of purchase
- Vacuum Impregnated (VPI) Stator

HP	Sync. RPM	Model	List Price
1/3	3600	CB1-AL-TF-56C-2-B-C-.33	\$690
	1800	CB1-AL-TF-56C-4-B-C-.33	\$651
1/2	3600	CB1-AL-TF-56C-2-B-C-.5	\$721
	1800	CB1-AL-TF-56C-4-B-C-.5	\$739
3/4	3600	CB1-AL-TF-56C-2-B-C-.75	\$800
	1800	CB1-AL-TF-56C-4-B-C-.75	\$823
1	3600	CB1-AL-TF-56C-2-B-C-1	\$809
	1800	CB1-AL-TF-56C-4-B-C-1	\$872
1.5	3600	CB1-AL-TF-56C-2-B-C-1.5	\$857
	1800	CB1-AL-TF-56HC-4-B-C-1.5	\$1,090
2	3600	CB1-AL-TF-56HC-2-B-C-2	\$1,035
	1800	CB1-AL-TF-56HC-4-B-C-2	\$1,164

Multiplier Code: CB

SOLID STATE START SWITCH

Eliminating common failures found in single phase Mechanical switches



High Efficiency Dual Cap Design

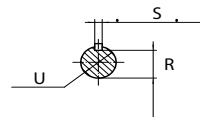
COBRA Line Single Phase Aluminum Series

HP	Sync. RPM	Model T Frame	List Price	Model TC Frame	List Price
1	3600	CB1-AL-TF-143T-2-B-C-1	\$820	CB1-AL-TF-143TC-2-B-C-1	\$845
	1800	CB1-AL-TF-143T-4-B-C-1	\$877	CB1-AL-TF-143TC-4-B-C-1	\$902
1.5	3600	CB1-AL-TF-143T-2-B-C-1.5	\$877	CB1-AL-TF-143TC-2-B-C-1.5	\$904
	1800	CB1-AL-TF-145T-4-B-C-1.5	\$986	CB1-AL-TF-145TC-4-B-C-1.5	\$1,017
2	3600	CB1-AL-TF-145T-2-B-C-2	\$938	CB1-AL-TF-145TC-2-B-C-2	\$967
	1800	CB1-AL-TF-145T-4-B-C-2	\$1,055	CB1-AL-TF-145TC-4-B-C-2	\$1,085
3	3600	CB1-AL-TF-145T-2-B-C-3	\$1,022	CB1-AL-TF-145TC-2-B-C-3	\$1,053
	1800	CB1-AL-TF-145T-4-B-C-3	\$1,212	CB1-AL-TF-145TC-4-B-C-3	\$1,248
	3600	CB1-AL-TF-182T-2-B-B-3	\$1,381	CB1-AL-TF-182TC-2-B-B-3	\$1,422
	1800	CB1-AL-TF-182T-4-B-B-3	\$1,503	CB1-AL-TF-182TC-4-B-B-3	\$1,548
5	3600	CB1-AL-TF-184T-2-B-B-5	\$1,544	CB1-AL-TF-184TC-2-B-B-5	\$1,591
	1800	CB1-AL-TF-184T-4-B-B-5	\$1,840	CB1-AL-TF-184TC-4-B-B-5	\$1,896
7.5	3600	CB1-AL-TF-184T-2-B-B-7.5	\$2,066	CB1-AL-TF-184TC-2-B-B-7.5	\$2,127
	3600	CB1-AL-TF-213T-2-B-B-7.5	\$2,459	CB1-AL-TF-213TC-2-B-B-7.5	\$2,532
	1800	CB1-AL-TF-213T-4-B-B-7.5	\$2,721	CB1-AL-TF-213TC-4-B-B-7.5	\$2,802
10	3600	CB1-AL-TF-215T-2-B-B-10	\$2,690	CB1-AL-TF-215TC-2-B-B-10	\$2,770
	1800	CB1-AL-TF-215T-4-B-B-10	\$2,903	CB1-AL-TF-215TC-4-B-B-10	\$2,993

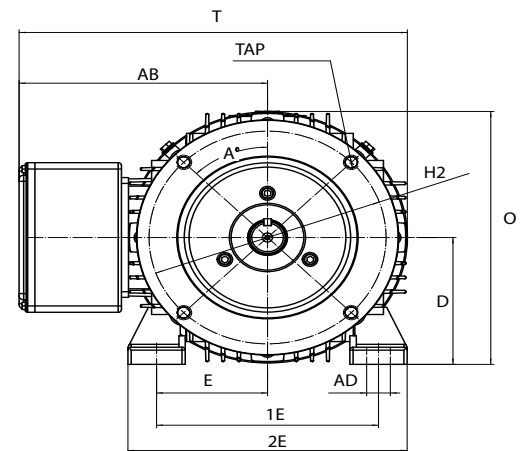
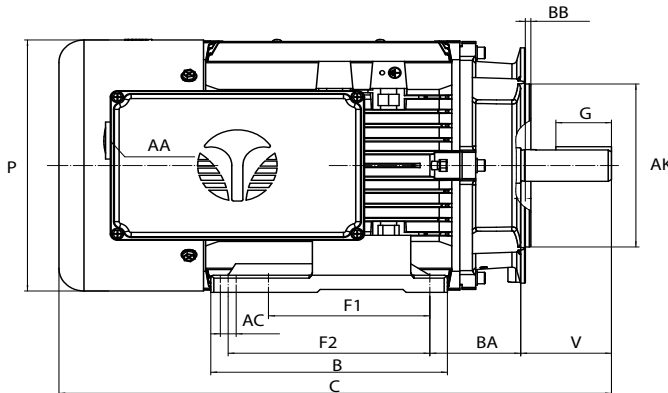
Multiplier Code: CB

COBRA DIMENSIONS

	56-145	182/184	213/215
A	45°		
G	1.378	1.78	2.41



140TC Drawing Displayed



FRAME	AA	AB	AC	AD	AK	BA	BB	B	C	D	E	1E	2E	F1	F2	O	P	R	S	T	U	V	TAP	H2
56 (1/3 HP)	1/2-14	5.73	0.335	0.73	4.5	2.75	0.138	3.95	11.5	3.5	2.44	4.88	6.3	---	3	6.75	6.2	0.517	0.188	9	0.625	1.875	3/8-16	5.875
56C (1/3 HP)														---										
56		6.16	0.35	0.583				5.9	13.6					3	5	7	6.95			9.65	0.875	2.25		
56C																								
143/145T 143/145TC	3/4-14	6.16	0.393	0.59	2.25	5.86	13.7	2.75	5.5	6.9	4	5	7	6.95	0.771	0.875	2.25							
182/184T 182/184TC	--- --	6.92	0.472	0.63	8.5	2.75	0.25	7.1	16.1	4.5	3.75	7.5	8.85	4.5	5.5	9	8.65	0.986	0.25	11.4	1.125	2.75	1/2-13	7.25
213/215T																								
213/215TC																								

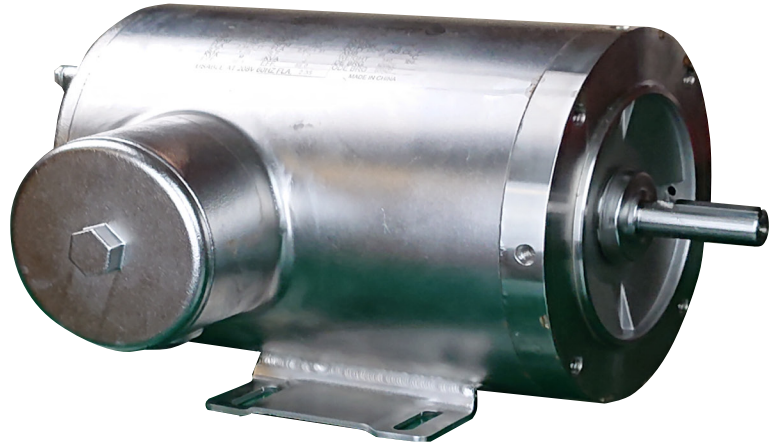
STAINLESS STEEL



HP: 1/2– 5 Frame: 56C , 56HC , 143TC - 184TC RPM: 1800 , 3600
Pole: 2 , 4 Volt: 230/460V Round and Footed

STANDARD FEATURES

- NEMA Premium Efficiency
- 1.15 Service Factor
- Inverter Rated 20:1 VT, 4:1 CT
- Fully Encapsulated Windings
- Semipermeable Pressure Vent
- Food Grade / BISCC Certified
- Vacuum Impregnated (VPI) Stator
- 24 Month Warranty



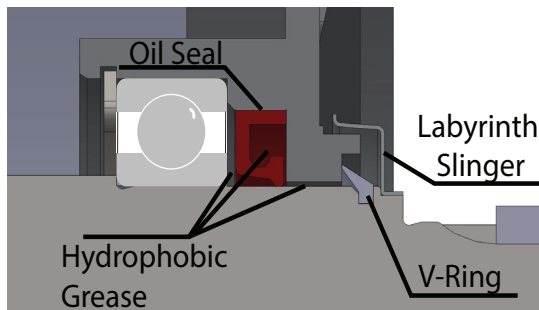
IP69K Ingress Protection



Pressure
Relief



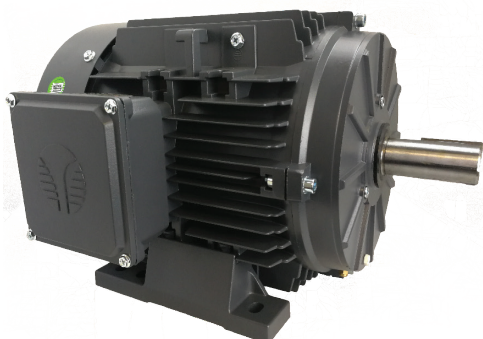
Color Coded Lead Wires



HP	Sync.	TENV		TENV Round Body	
		Model Number	List	Model Number	List
0.5	3600	SS3-TN-56C-2-D-0.5	\$1,713	SS3-TN-56C-2-D-0.5-RND	\$1,713
	1800	SS3-TN-56C-4-D-0.5	\$1,899	SS3-TN-56C-4-D-0.5-RND	\$1,899
0.75	3600	SS3-TN-56C-2-D-0.75	\$1,806	SS3-TN-56C-2-D-0.75-RND	\$1,806
	1800	SS3-TN-56C-4-D-0.75	\$1,992	SS3-TN-56C-4-D-0.75-RND	\$1,992
1	3600	SS3-TN-56HC-2-D-1	\$2,160	SS3-TN-56C-2-D-1-RND	\$2,160
	1800	SS3-TN-56HC-4-D-1	\$2,372	SS3-TN-56C-4-D-1-RND	\$2,372

HP	Sync.	TEFC		TEFC Round Body	
		Model Number	List	Model Number	List
0.5	1800	SS3-TF-56C-4-D-0.5	\$1,869	SS3-TF-56C-4-D-0.5-RND	\$1,869
0.75	1800	SS3-TF-56C-4-D-0.75	\$1,930	SS3-TF-56C-4-D-0.75-RND	\$1,930
1	1800	SS3-TF-56HC-4-D-1	\$2,300	SS3-TF-56C-4-D-1-RND	\$2,300
	1800	SS3-TF-143TC-4-D-1	\$2,530	SS3-TF-143TC-4-D-1-RND	\$2,482
1.5	1800	SS3-TF-56HC-4-D-1.5	\$2,581	SS3-TF-56C-4-D-1.5-RND	\$2,533
	3600	SS3-TF-143TC-2-D-1.5	\$2,566	SS3-TF-143TC-2-D-1.5-RND	\$2,519
	1800	SS3-TF-145TC-4-D-1.5	\$2,515	SS3-TF-145TC-4-D-1.5-RND	\$2,413
2	1800	SS3-TF-56HC-4-D-2	\$3,030	SS3-TF-56HC-4-D-2-RND	\$3,030
	3600	SS3-TF-145TC-2-D-2	\$2,809	SS3-TF-145TC-2-D-2-RND	\$2,754
	1800	SS3-TF-145TC-4-D-2	\$3,088	SS3-TF-145TC-4-D-2-RND	\$3,028
3	3600	SS3-TF-145TC-2-D-3	\$3,277	SS3-TF-145TC-2-D-3-RND	\$3,212
	3600	SS3-TF-182TC-2-D-3	\$5,680	SS3-TF-182TC-2-D-3-RND	\$5,569
5	1800	SS3-TF-182TC-4-D-3	\$6,021	SS3-TF-182TC-4-D-3-RND	\$5,903
	3600	SS3-TF-184TC-2-D-5	\$5,960	SS3-TF-184TC-2-D-5-RND	\$5,843
	1800	SS3-TF-184TC-4-D-5	\$6,505	SS3-TF-184TC-4-D-5-RND	\$6,378

Multiplier Code: SS



HP: 1–30
Pole: 2/4/6

Frame: 143T–286T
3Φ Volt: 230/460V

RPM: 3600/1800/1200
Encl: (TEFC) IP 55



STANDARD FEATURES

- NEMA Premium Efficiency
- Dual Voltage - Three Phase 230/460V
- 3600/1800/1200 RPM - 2/4/6 Pole
- Inverter Duty -15:1 Constant Torque (MG1 Part 31)
- Totally Enclosed Fan Cooled IP 55 Protection
- VPI Lap wound Stator with Anti-fungal Coating
- Double Lip Oil Seal on DE & ODE
- Internal Shaft Grounding Brush
- 1.25 SF - 143T and Up
- 50 Hz Capable at 1.0 SF
- 40° C Ambient Temperature Rating
- 1045 Carbon Steel Shaft
- Multi-mount Frame with Removable Feet
- Oversized Drive End Bearing
- One-Way Brass Condensation Drains
- Aluminum Conduit Box 90° Rotatable
- Class F Insulation System with Class H Stator
- F1, F2, F3 Box Position Convertible (Shipped F1)
- Class 1, Division 2, Group C & D Compliant*
- Installation up to 3300 ft Altitude
- 36 Month Warranty from Purchase Date
- Marine Duty Compliant

* Requires removal of internal Grounding Brush. Note requirement on your order.

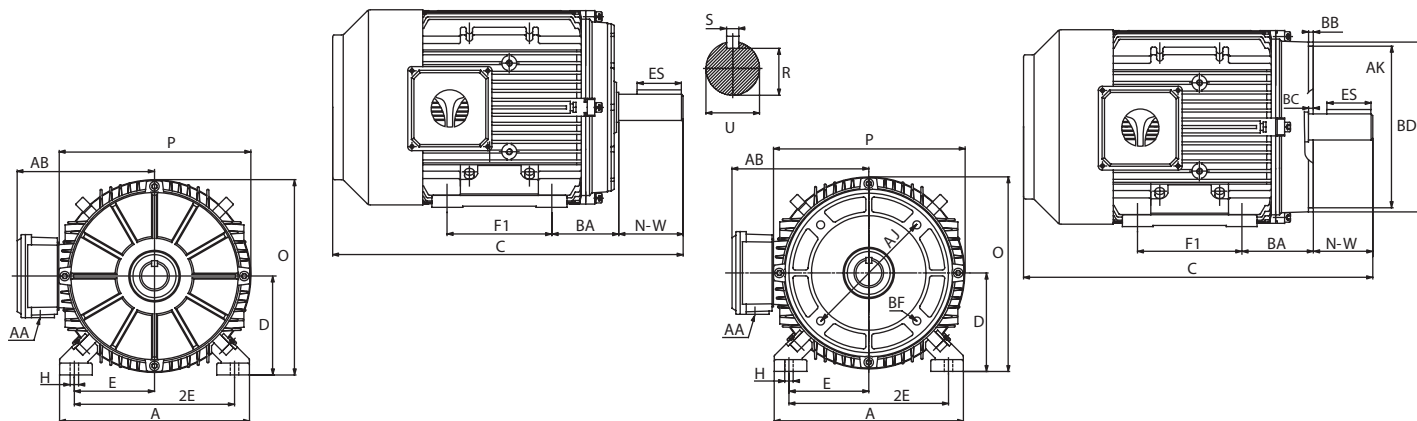


*Shaft Grounding Installed



HP	Sync Speed	Model No.	List Price	
			Rigid Base	C-Face
1	3600	GX3-AL-TF-143T-2-B-D-1	\$756	\$849
	1800	GX3-AL-TF-143T-4-B-D-1	\$756	\$849
	1200	GX3-AL-TF-145T-6-B-D-1	\$877	\$946
1.5	3600	GX3-AL-TF-143T-2-B-D-1.5	\$797	\$890
	1800	GX3-AL-TF-145T-4-B-D-1.5	\$823	\$916
	1200	GX3-AL-TF-182T-6-B-D-1.5	\$1,250	\$1,397
2	3600	GX3-AL-TF-145T-2-B-D-2	\$883	\$976
	1800	GX3-AL-TF-145T-4-B-D-2	\$881	\$974
	1200	GX3-AL-TF-184T-6-B-D-2	\$1,439	\$1,558
3	3600	GX3-AL-TF-182T-2-B-D-3	\$1,226	\$1,380
	1800	GX3-AL-TF-182T-4-B-D-3	\$1,202	\$1,358
	1200	GX3-AL-TF-213T-6-B-D-3	\$1,817	\$1,991
5	3600	GX3-AL-TF-184T-2-B-D-5	\$1,344	\$1,494
	1800	GX3-AL-TF-184T-4-B-D-5	\$1,356	\$1,509
	1200	GX3-AL-TF-215T-6-B-D-5	\$2,317	\$2,460
7.5	3600	GX3-AL-TF-213T-2-B-D-7.5	\$1,833	\$2,077
	1800	GX3-AL-TF-213T-4-B-D-7.5	\$1,914	\$2,102
	1200	GX3-AL-TF-254T-6-B-D-7.5	\$2,944	\$3,247
10	3600	GX3-AL-TF-215T-2-B-D-10	\$2,102	\$2,345
	1800	GX3-AL-TF-215T-4-B-D-10	\$2,239	\$2,495
	1200	GX3-AL-TF-256T-6-B-D-10	\$3,658	\$3,947
15	3600	GX3-AL-TF-215T-2-B-D-15	\$3,209	\$3,336
	3600	GX3-AL-TF-254T-2-B-D-15	\$3,379	\$3,680
	1800	GX3-AL-TF-254T-4-B-D-15	\$3,385	\$3,688
20	1200	GX3-AL-TF-284T-6-B-D-15	\$4,387	\$4,742
	3600	GX3-AL-TF-256T-2-B-D-20	\$3,757	\$4,044
	1800	GX3-AL-TF-256T-4-B-D-20	\$3,793	\$4,081
25	1200	GX3-AL-TF-286T-6-B-D-20	\$5,015	\$5,370
	3600	GX3-AL-TF-284TS-2-B-D-25	\$4,292	\$4,649
	1800	GX3-AL-TF-284T-4-B-D-25	\$4,343	\$4,698
30	3600	GX3-AL-TF-286TS-2-B-D-30	\$5,133	\$5,490
	1800	GX3-AL-TF-286T-4-B-D-30	\$5,119	\$5,474

Multiplier Code: AG



Frame	A	AA	AB	AJ	AK	BA	BB	BC	BF	C	D	E	ES	2E	F1	F2	H	O	P	R	S	U	N-W
143T				---	---		---	---	---														
143TC	6.9	3/4	5.65	5.875	4.5	2.25	0.16	0.125	4 x 3/8	13.7	3.5	2.75	1.41	5.5	4	5	0.59	7	6.9	0.771	0.188	0.875	2.25
145T				---	---		---	---	---														
145TC				5.875	4.5		0.16	0.125	4 x 3/8														
182T				---	---		---	---	---									8.85					
182TC	8.85	3/4	6.6	7.25	8.5	2.75	0.25	0.12	4 x 1/2	16.1	4.5	3.75	1.78	7.5	4.5	5.5	0.63	9	8.85	0.986	0.25	1.125	2.75
184T				---	---		---	---	---									8.85					
184TC				7.25	8.5		0.25	0.12	4 x 1/2									9					
213T				---	---		---	---	---														
213TC	10.3	1.0	7.4	7.25	8.5	3.5	0.25	0.25	4 x 1/2	19	5.25	4.25	2.41	8.5	5.5	7	0.63	10.4	10.3	1.201	0.312	1.375	3.38
215T				---	---		---	---	---														
215TC				7.25	8.5		0.25	0.25	4 x 1/2														
254T				---	---		---	---	---	24					8.25	10							
254TC	12.4	1 1/4	8.82	7.25	12.5	4.25	0.25	---	4 x 1/2	---	6.25	5	2.91	10			0.83	12.5	12.4	1.416	0.375	1.625	4
256T				---	---		---	---	---	25.8					10.25	12							
256TC				7.25	12.5		0.25	---	4 x 1/2	---													
284T				---	---		---	---	---									0.985					
284TC	13.4	1 1/2	11.3	---	10.5	4.75	0.25	---	4 x 1/2	29.3	7	5.5	3.28	11	9.5	11	0.984	14.1	13.4	1.591	0.5	1.875	4.62
286T				---	---		---	---	---									---					
286TC				---	10.5		0.25	---	4 x 1/2									---					

MOTOR MODIFICATIONS

Mod. Model # + Frame Adder	Description	Frame Sizes (List Price)			
		182T	213T	254T	284T
		184T	215T	256T	286T
MODFGADT	C-Face Adaption + Kit	\$611	\$661	\$711	\$832
MODTB	Terminal Blocks (6 Post)	\$316	\$357	\$431	\$431
MODF2F3	F-1 to F-2 Conversion	\$711	\$711	\$711	\$711
MODTFCAO	TEFC to TEAO Conversion	\$646	\$646	\$797	\$797
MODCT	TEFC to TEAO Cooling Tower	\$1,142	\$1,192	\$1,393	\$1,443
MODTS	Shaft Reduction T to TS	\$2,771	\$2,771	\$2,771	\$2,771
MODSH	Space Heaters	\$892	\$892	\$892	\$892
		40W	40W	60W	60W
MODWTS	Winding Thermostats	\$1,001	\$1,001	\$1,169	\$1,208
MODCOAT	Repainting motor(Epoxy or Poly)	\$755	\$805	\$915	\$965
Frame Adder:		182/4	213/5	254/6	284/6

HP: .12-150

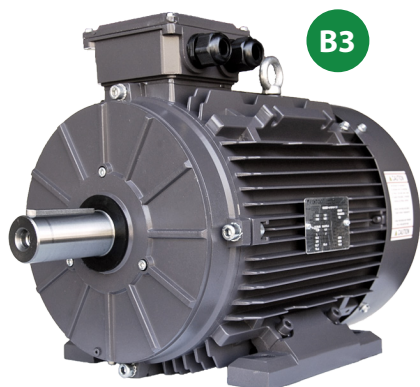
Frame: 56-280

RPM: 1200/1800/3600

Pole: 2/4/6/8

Volt: 230/460V

kW: 0.09-110



STANDARD FEATURES



- IP 55 Rated Ingress Protection
- Inverter Rated-15:1 Constant Torque (MG1 Part 31)
- Double Lip Bearing Seal on DE & ODE
- VPI Lap Wound Stator with Tropicalization
- Dual Oversized Bearing on DE & ODE
- F1, F2, F3 Box Position Convertible (Shipped F1)
- Corrosion Resistant Hardward
- Rubber Slinger Protection on Drive End
- Conduit Box is 90° Rotatable
- Zerk Regreaseable Bearings 160 Frame & Larger
- Class H Insulated Stator with Class F Leads
- Terminal Blocks between Conduit Box & Body
- Increase & Decrease Flanges Available
- One-Way Brass Condensation Drain on DE & ODE
- Class 1, Division 2, Groups A, B, C & D Compliant
- PTC Thermal Protection Installed
- 36 Month Warranty

KW	HP	Sync RPM	Eff Level	Model Number w/RIGID BASE B3	List Price	Model Number w/RIGID BASE B5 FLANGE	List Price	Model Number w/RIGID BASE B14 FLANGE	List Price
0.09	0.12	1800	IE1	BL3-AL-TF-56B3-4-B-D-.12	\$370	BL3-AL-TF-56B35-4-B-D-.12	\$481	BL3-AL-TF-56B34-4-B-D-.12	\$433
		3600	IE1	BL3-AL-TF-56B3-2-B-D-.18	\$405	BL3-AL-TF-56B35-2-B-D-.18	\$517	BL3-AL-TF-56B34-2-B-D-.18	\$469
0.12	0.18	1800	IE3	GR3-AL-TF-63B3-4-B-D-.18	\$501	GR3-AL-TF-63B35-4-B-D-.18	\$670	GR3-AL-TF-63B34-4-B-D-.18	\$596
		900	IE3	GR3-AL-TF-71B3-8-B-D-.16	\$707	GR3-AL-TF-71B35-8-B-D-.16	\$920	GR3-AL-TF-71B34-8-B-D-.16	\$829
0.18	0.25	3600	IE3	GR3-AL-TF-63B3-2-B-D-.25	\$519	GR3-AL-TF-63B35-2-B-D-.25	\$687	GR3-AL-TF-63B34-2-B-D-.25	\$612
		1800	IE3	GR3-AL-TF-63B3-4-B-D-.25	\$525	GR3-AL-TF-63B35-4-B-D-.25	\$693	GR3-AL-TF-63B34-4-B-D-.25	\$618
0.25	0.35	3600	IE3	GR3-AL-TF-63B3-2-B-D-.35	\$532	GR3-AL-TF-63B35-2-B-D-.35	\$699	GR3-AL-TF-63B34-2-B-D-.35	\$626
		1800	IE3	GR3-AL-TF-63B3-4-B-D-.35	\$570	GR3-AL-TF-63B35-4-B-D-.35	\$739	GR3-AL-TF-63B34-4-B-D-.35	\$664
		1800	IE3	GR3-AL-TF-71B3-4-B-D-.35	\$612	GR3-AL-TF-71B35-4-B-D-.35	\$840	GR3-AL-TF-71B34-4-B-D-.35	\$751
		900	IE3	GR3-AL-TF-80B3-8-B-D-.33	\$1,023	GR3-AL-TF-80B35-8-B-D-.33	\$1,331	GR3-AL-TF-80B34-8-B-D-.33	\$1,198
0.37	0.50	3600	IE3	GR3-AL-TF-63B3-2-B-D-.5	\$562	GR3-AL-TF-63B35-2-B-D-.5	\$731	GR3-AL-TF-63B34-2-B-D-.5	\$656
		3600	IE3	GR3-AL-TF-71B3-2-B-D-.5	\$604	GR3-AL-TF-71B35-2-B-D-.5	\$835	GR3-AL-TF-71B34-2-B-D-.5	\$745
		1800	IE3	GR3-AL-TF-71B3-4-B-D-.5	\$654	GR3-AL-TF-71B35-4-B-D-.5	\$882	GR3-AL-TF-71B34-4-B-D-.5	\$793
		1200	IE3	GR3-AL-TF-71B3-6-B-D-.5	\$874	GR3-AL-TF-71B35-6-B-D-.5	\$1,135	GR3-AL-TF-71B34-6-B-D-.5	\$1,023
		1200	IE3	GR3-AL-TF-80B3-6-B-D-.5	\$942	GR3-AL-TF-80B35-6-B-D-.5	\$1,224	GR3-AL-TF-80B34-6-B-D-.5	\$1,103
		900	IE3	GR3-AL-TF-80B3-8-B-D-.5	\$1,162	GR3-AL-TF-80B35-8-B-D-.5	\$1,512	GR3-AL-TF-80B34-8-B-D-.5	\$1,359

Multiplier Code: IE

TEFC-METRIC IEC LIST PRICE

0.55	0.75	3600	IE3	GR3-AL-TF-71B3-2-B-D-.75	\$644	GR3-AL-TF-71B35-2-B-D-.75	\$874	GR3-AL-TF-71B34-2-B-D-.75	\$785
		1800	IE3	GR3-AL-TF-71B3-4-B-D-.75	\$751	GR3-AL-TF-71B35-4-B-D-.75	\$986	GR3-AL-TF-71B34-4-B-D-.75	\$892
		1800	IE3	GR3-AL-TF-80B3-4-B-D-.75	\$807	GR3-AL-TF-80B35-4-B-D-.75	\$1,087	GR3-AL-TF-80B34-4-B-D-.75	\$910
		1200	IE3	GR3-AL-TF-80B3-6-B-D-.75	\$1,023	GR3-AL-TF-80B35-6-B-D-.75	\$1,329	GR3-AL-TF-80B34-6-B-D-.75	\$1,196
		900	IE3	GR3-AL-TF-90LB3-8-B-D-.75	\$1,363	GR3-AL-TF-90LB35-8-B-D-.75	\$1,772	GR3-AL-TF-90LB34-8-B-D-.75	\$1,595
0.75	1	3600	IE3	GR3-AL-TF-71B3-2-B-D-1	\$723	GR3-AL-TF-71B35-2-B-D-1	\$954	GR3-AL-TF-71B34-2-B-D-1	\$864
		3600	IE3	GR3-AL-TF-80B3-2-B-D-1	\$815	GR3-AL-TF-80B35-2-B-D-1	\$1,039	GR3-AL-TF-80B34-2-B-D-1	\$898
		1800	IE3	GR3-AL-TF-80B3-4-B-D-1	\$898	GR3-AL-TF-80B35-4-B-D-1	\$1,117	GR3-AL-TF-80B34-4-B-D-1	\$980
		1200	IE3	GR3-AL-TF-80B3-6-B-D-1	\$1,131	GR3-AL-TF-80B35-6-B-D-1	\$1,470	GR3-AL-TF-80B34-6-B-D-1	\$1,321
		1200	IE3	GR3-AL-TF-90SB3-6-B-D-1	\$1,180	GR3-AL-TF-90SB35-6-B-D-1	\$1,534	GR3-AL-TF-90SB34-6-B-D-1	\$1,307
		900	IE3	GR3-AL-TF-100LB3-8-B-D-1	\$1,639	GR3-AL-TF-100LB35-8-B-D-1	\$2,132	GR3-AL-TF-100LB34-8-B-D-1	\$1,917
1.1	1.5	3600	IE3	GR3-AL-TF-80B3-2-B-D-1.5	\$878	GR3-AL-TF-80B35-2-B-D-1.5	\$1,095	GR3-AL-TF-80B34-2-B-D-1.5	\$958
		1800	IE3	GR3-AL-TF-80B3-4-B-D-1.5	\$1,043	GR3-AL-TF-80B35-4-B-D-1.5	\$1,288	GR3-AL-TF-80B34-4-B-D-1.5	\$1,170
		1800	IE3	GR3-AL-TF-90SB3-4-B-D-1.5	\$1,057	GR3-AL-TF-90SB35-4-B-D-1.5	\$1,311	GR3-AL-TF-90SB34-4-B-D-1.5	\$1,184
		1200	IE3	GR3-AL-TF-100LB3-6-B-D-1.5	\$1,514	GR3-AL-TF-100LB35-6-B-D-1.5	\$1,969	GR3-AL-TF-100LB34-6-B-D-1.5	\$1,772
		900	IE3	GR3-AL-TF-100LB3-8-B-D-1.5	\$1,784	GR3-AL-TF-100LB35-8-B-D-1.5	\$2,319	GR3-AL-TF-100LB34-8-B-D-1.5	\$2,088
1.5	2	3600	IE3	GR3-AL-TF-80B3-2-B-D-2	\$997	GR3-AL-TF-80B35-2-B-D-2	\$1,337	GR3-AL-TF-80B34-2-B-D-2	\$1,186
		3600	IE3	GR3-AL-TF-90SB3-2-B-D-2	\$1,063	GR3-AL-TF-90SB35-2-B-D-2	\$1,425	GR3-AL-TF-90SB34-2-B-D-2	\$1,266
		1800	IE3	GR3-AL-TF-90LB3-4-B-D-2	\$1,107	GR3-AL-TF-90LB35-4-B-D-2	\$1,361	GR3-AL-TF-90LB34-4-B-D-2	\$1,234
		1200	IE3	GR3-AL-TF-100LB3-6-B-D-2	\$1,687	GR3-AL-TF-100LB35-6-B-D-2	\$2,194	GR3-AL-TF-100LB34-6-B-D-2	\$1,973
		900	IE3	GR3-AL-TF-112MB3-8-B-D-2	\$2,154	GR3-AL-TF-112MB35-8-B-D-2	\$2,800	GR3-AL-TF-112MB34-8-B-D-2	\$2,519
2.2	3	3600	IE3	GR3-AL-TF-90LB3-2-B-D-3	\$1,242	GR3-AL-TF-90LB35-2-B-D-3	\$1,586	GR3-AL-TF-90LB34-2-B-D-3	\$1,367
		1800	IE3	GR3-AL-TF-100LB3-4-B-D-3	\$1,401	GR3-AL-TF-100LB35-4-B-D-3	\$1,822	GR3-AL-TF-100LB34-4-B-D-3	\$1,681
		1200	IE3	GR3-AL-TF-112MB3-6-B-D-3	\$2,255	GR3-AL-TF-112MB35-6-B-D-3	\$2,933	GR3-AL-TF-112MB34-6-B-D-3	\$2,639
3	4	3600	IE3	GR3-AL-TF-100LB3-2-B-D-4	\$1,621	GR3-AL-TF-100LB35-2-B-D-4	\$2,021	GR3-AL-TF-100LB34-2-B-D-4	\$1,768
		1800	IE3	GR3-AL-TF-100LB3-4-B-D-4	\$1,564	GR3-AL-TF-100LB35-4-B-D-4	\$2,033	GR3-AL-TF-100LB34-4-B-D-4	\$1,876
		1200	IE3	GR3-AL-TF-132SB3-6-B-D-4	\$2,901	GR3-AL-TF-132SB35-6-B-D-4	\$3,771	GR3-AL-TF-132SB34-6-B-D-4	\$3,394
4	5.5	3600	IE3	GR3-AL-TF-100LB3-2-B-D-5.5	\$1,649	GR3-AL-TF-100LB35-2-B-D-5.5	\$2,209	GR3-AL-TF-100LB34-2-B-D-5.5	\$1,963
		3600	IE3	GR3-AL-TF-112MB3-2-B-D-5.5	\$2,007	GR3-AL-TF-112MB35-2-B-D-5.5	\$2,688	GR3-AL-TF-112MB34-2-B-D-5.5	\$2,388
		1800	IE3	GR3-AL-TF-112MB3-4-B-D-5.5	\$1,929	GR3-AL-TF-112MB35-4-B-D-5.5	\$2,507	GR3-AL-TF-112MB34-4-B-D-5.5	\$2,315
5.5	7.5	3600	IE3	GR3-AL-TF-112MB3-2-B-D-7.5	\$2,400	GR3-AL-TF-112MB35-2-B-D-7.5	\$3,119	GR3-AL-TF-112MB34-2-B-D-7.5	\$2,808
		3600	IE3	GR3-AL-TF-132SB3-2-B-D-7.5	\$2,525	GR3-AL-TF-132SB35-2-B-D-7.5	\$3,384	GR3-AL-TF-132SB34-2-B-D-7.5	\$3,004
		1800	IE3	GR3-AL-TF-132SB3-4-B-D-7.5	\$2,496	GR3-AL-TF-132SB35-4-B-D-7.5	\$3,245	GR3-AL-TF-132SB34-4-B-D-7.5	\$2,994
7.5	10	3600	IE3	GR3-AL-TF-132SB3-2-B-D-10	\$2,696	GR3-AL-TF-132SB35-2-B-D-10	\$3,612	GR3-AL-TF-132SB34-2-B-D-10	\$3,209
		1800	IE3	GR3-AL-TF-132MB3-4-B-D-10	\$2,885	GR3-AL-TF-132MB35-4-B-D-10	\$3,751	GR3-AL-TF-132MB34-4-B-D-10	\$3,461
11	15	3600	IE3	GR3-AL-TF-132MB3-2-B-D-15	\$3,974	GR3-AL-TF-132MB35-2-B-D-15	\$5,073	GR3-AL-TF-132MB34-2-B-D-15	\$4,377
		3600	IE3	GR3-CI-TF-160MB3-2-BR-D-15	\$4,324	GR3-CI-TF-160MB35-2-BR-D-15	\$5,794	GR3-CI-TF-160MB34-2-BR-D-15	\$5,144
		1800	IE3	GR3-CI-TF-160MB3-4-BR-D-15	\$4,387	GR3-CI-TF-160MB35-4-BR-D-15	\$5,702	GR3-CI-TF-160MB34-4-BR-D-15	\$5,265
15	20	3600	IE3	GR3-CI-TF-160MB3-2-BR-D-20	\$4,802	GR3-CI-TF-160MB35-2-BR-D-20	\$6,197	GR3-CI-TF-160MB34-2-BR-D-20	\$5,669
		1800	IE3	GR3-CI-TF-160LB3-4-BR-D-20	\$5,092	GR3-CI-TF-160LB35-4-BR-D-20	\$6,487	GR3-CI-TF-160LB34-4-BR-D-20	\$5,959
18.5	25	3600	IE3	GR3-CI-TF-160LB3-2-BR-D-25	\$6,457	GR3-CI-TF-160LB35-2-BR-D-25	\$7,852	GR3-CI-TF-160LB34-2-BR-D-25	\$7,324
		1800	IE3	GR3-CI-TF-180MB3-4-BR-D-25	\$7,660	GR3-CI-TF-180MB35-4-BR-D-25	\$9,643	GR3-CI-TF-180MB34-4-BR-D-25	-
22	30	3600	IE3	GR3-CI-TF-160LB3-2-BR-D-30	\$7,157	GR3-CI-TF-160LB35-2-BR-D-30	\$8,552	GR3-CI-TF-160LB34-2-BR-D-30	\$8,023
		1800	IE3	GR3-CI-TF-180LB3-4-BR-D-30	\$8,311	GR3-CI-TF-180LB35-4-BR-D-30	\$10,157	GR3-CI-TF-180LB34-4-BR-D-30	-
30	40	1800	IE3	GR3-CI-TF-200LB3-4-BR-D-40	\$9,315	GR3-CI-TF-200LB35-4-BR-D-40	\$11,137	GR3-CI-TF-200LB34-4-BR-D-40	-
37	50	1800	IE3	GR3-CI-TF-225SB3-4-BR-D-50	\$11,498	GR3-CI-TF-225SB35-4-BR-D-50	\$14,210	GR3-CI-TF-225SB34-4-BR-D-50	-
45	60	1800	IE3	GR3-CI-TF-225MB3-4-BR-D-60	\$13,106	GR3-CI-TF-225MB35-4-BR-D-60	\$15,818	GR3-CI-TF-225MB34-4-BR-D-60	-
55	75	1800	IE3	GR3-CI-TF-225MB3-4-BR-D-75	\$16,541	GR3-CI-TF-225MB35-4-BR-D-75	-	GR3-CI-TF-225MB34-4-BR-D-75	-
		1800	IE3	GR3-CI-TF-225MB3-4-RR-D-75	\$16,541	GR3-CI-TF-225MB35-4-RR-D-75	-	GR3-CI-TF-225MB34-4-RR-D-75	-
		1800	IE3	GR3-CI-TF-250MB3-4-BR-D-75	\$16,541	GR3-CI-TF-250MB35-4-BR-D-75	\$20,338	GR3-CI-TF-250MB34-4-BR-D-75	-
75	100	1800	IE3	GR3-CI-TF-280SB3-4-BR-D-100	\$21,167	GR3-CI-TF-280SB35-4-BR-D-100	\$25,796	GR3-CI-TF-280SB34-4-BR-D-100	-
90	125	1800	IE3	GR3-CI-TF-280MB3-4-BR-D-125	\$26,390	GR3-CI-TF-280MB35-4-BR-D-125	\$31,391	GR3-CI-TF-280MB34-4-BR-D-125	-
110	150	1800	IE3	GR3-CI-TF-280MB3-4-BR-D-150	\$43,758	GR3-CI-TF-280MB35-4-BR-D-150	\$48,757	GR3-CI-TF-280MB34-4-BR-D-150	-

Multiplier Code: IE

PLEASE CALL 1-855-832-4867 FOR MOTORS NOT LISTED ABOVE.

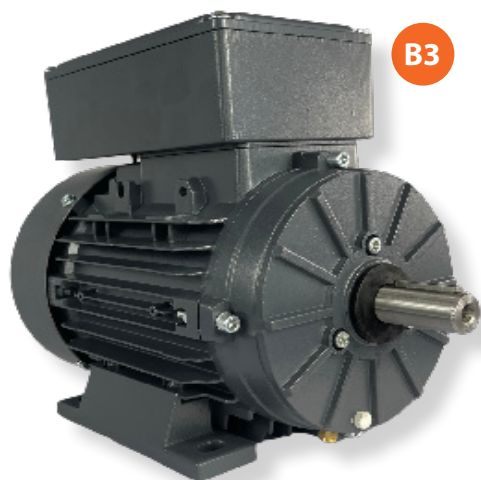
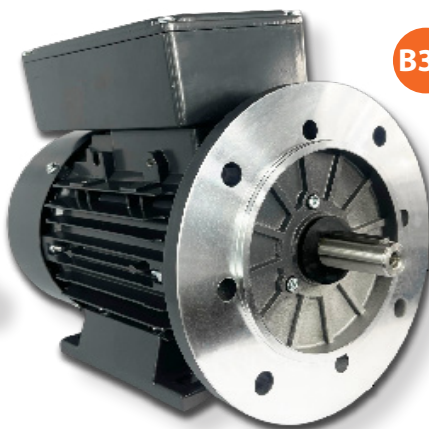
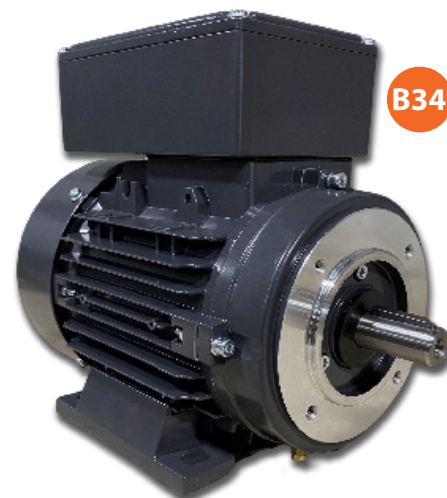
HP: 0.12–3

Frame: 56–100

RPM: 1800

Pole: 4

Volt: 115 & 230V

kW: 0.09–2.2

B3

B35

B34

STANDARD FEATURES

- Removable feet F1, F2, F0 field convertible (standard F0)
- 1.0 Service Factor 60Hz operation
- 18 Month warranty
- Conduit Box is 90° rotatable
- Compact lightweight design
- 1045 Steel shaft
- Surface finish:
 - Alkyd enamel RAL7024
 - Graphite Gray
- Corrosion resistant hardware
- Cable gland fixed to connection box
- Solid State Switch
- Capacitor Start Capacitor Run
- Continuous (S1) duty
- Ambient temperatures up to 40°C
- Installation up to 1000 MASL (3300 ft.)
- Class F insulation
- Designed to Class B temperature rise

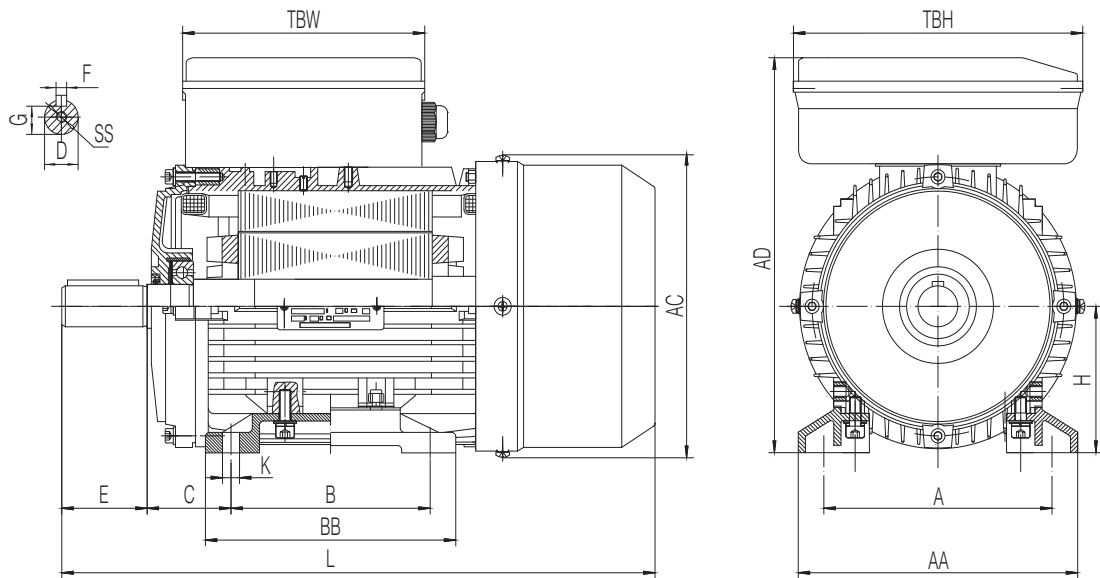


KW	HP	Volt.	MODEL NO. w/Ridge Base B3	List Price	MODEL NO. w/Ridge Base B5	List Price	MODEL NO. w/Ridge Base B14	List Price
0.09	0.12	115/208-230	BL1-AL-TF-56B3-4-B-C-.12	\$441	BL1-AL-TF-56B35-4-B-C-.12	\$552	BL1-AL-TF-56B34-4-B-C-.12	\$505
0.18	0.25	115/208-230	BL1-AL-TF-63B3-4-B-C-.25	\$536	BL1-AL-TF-63B35-4-B-C-.25	\$705	BL1-AL-TF-63B34-4-B-C-.25	\$630
0.25	0.33	115/208-230	BL1-AL-TF-71B3-4-B-C-.33	\$588	BL1-AL-TF-71B35-4-B-C-.33	\$817	BL1-AL-TF-71B34-4-B-C-.33	\$727
0.37	0.5	115/208-230	BL1-AL-TF-71B3-4-B-C-.5	\$648	BL1-AL-TF-71B35-4-B-C-.5	\$876	BL1-AL-TF-71B34-4-B-C-.5	\$787
0.55	0.75	115/208-230	BL1-AL-TF-80B3-4-B-C-.75	\$779	BL1-AL-TF-80B35-4-B-C-.75	\$1,033	BL1-AL-TF-80B34-4-B-C-.75	\$940
0.75	1	115/208-230	BL1-AL-TF-80B3-4-B-C-1	\$893	BL1-AL-TF-80B35-4-B-C-1	\$1,158	BL1-AL-TF-80B34-4-B-C-1	\$1,061
1.1	1.5	115/208-230	BL1-AL-TF-90SB3-4-B-C-1.5	\$1,127	BL1-AL-TF-90SB35-4-B-C-1.5	\$1,419	BL1-AL-TF-90SB34-4-B-C-1.5	\$1,336
1.5	2	115/208-230	BL1-AL-TF-90LB3-4-B-C-2	\$1,258	BL1-AL-TF-90LB35-4-B-C-2	\$1,550	BL1-AL-TF-90LB34-4-B-C-2	\$1,467

Multiplier Code: IE

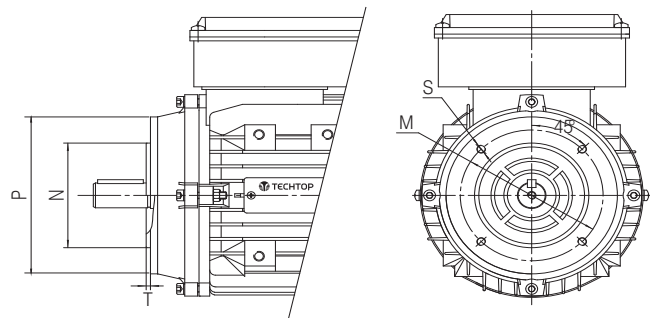
Foot Mount B3

Dimensions are in mm

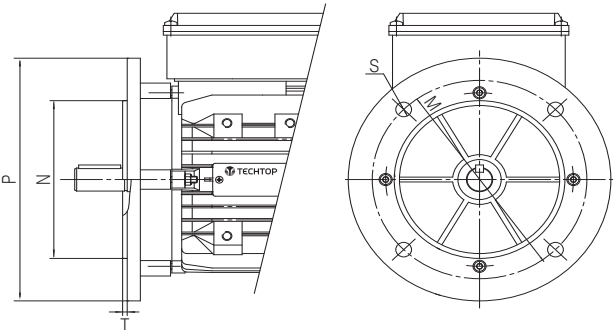


IEC FRAME	Foot Mounting					Shaft					General						
	H	A	B	C	K	D	E	F	G	SS	AA	BB	AC	AD	TBH	TBW	L
56	56	90	71	36	6	9	20	3	7.2	M3	109	91	115	171	93	121	189
63	63	100	80	40	7	11	23	4	8.5	M4	120	106	123	198	120	147	259
71	71	112	90	45	7	14	30	5	11	M5	136	108	147	216	120	147	274
80	80	125	100	50	9.5	19	40	6	15.5	M6	160	125	161	240	120	147	314
90S	90	140	100	56	9.5	24	50	8	20	M8	170	131	181	255	120	147	335
90L	90	140	125	56	9.5	24	50	8	20	M8	170	156	181	255	120	147	360
100L	100	160	140	63	11	28	60	8	24	M10	200	170	198	255	120	147	389

C-Flange B14/B14I



D-Flange B5/B5R



IEC FRAME	IEC B14 C-Flange Dimensions					B14R Reduced Kit	B14I Increased Kit
	M	N	P	T	S		
56	65	50	80	2.5	4-M5	--	--
63	75	60	90	2.5	4-M5	--	80
71	85	70	105	2.5	4-M6	63	80 or 90
80	100	80	120	3	4-M6	71	90
90	115	95	140	3	4-M8	--	100/112
100	130	110	160	3.5	4-M8	90	132

IEC FRAME	IEC B5 C-Flange Dimensions					B5R Reduced Kit	B5I Increased Kit
	M	N	P	T	S		
56	100	80	120	3	4-7	--	--
63	115	95	140	3	4-10	--	--
71	130	110	160	3.5	4-10	63	--
80	165	130	200	3.5	4-12	70	--
90	165	130	200	3.5	4-12	71	--
100	215	180	250	4	4-15	--	--

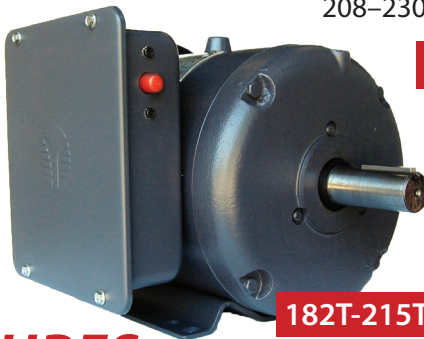
HP: 1/3–10
Pole: 4

Frame: 56–215T
Volt: 115/208–230 (<145T)
208–230 (>182T)

RPM: 1800 (60 Hz)
Body: T/TC/RND



56-145T



182T-215T



AUGER (56Y)

STANDARD FEATURES

- Manual Reset Protectors
- High Efficiency Dual Cap Design
- High Quality Molded Gaskets
- Over 300% Starting Torque
- Cast Iron End Bells
- Dual Oversized Ball Bearings
- Dependable Mechanical Starting Switch
- 18 Month Warranty

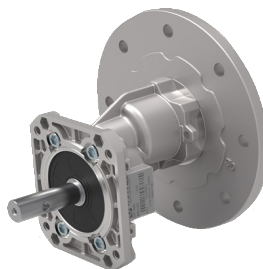


HP	Sync Speed	Model Number Rigid Base	List Price	Model Number C-Face with Base	List Price	Model Number C-Face with Round Body	List Price
1/3	1800	RD1-RS-TF-56-4-B-C-.33	\$561	RD1-RS-TF-56C-4-B-C-.33	\$589	RD1-RS-TF-56C-4-B-C-.33-RND	\$575
1/2	1800	RD1-RS-TF-56-4-B-C-.5	\$620	RD1-RS-TF-56C-4-B-C-.5	\$650	RD1-RS-TF-56C-4-B-C-.5-RND	\$630
3/4	1800	RD1-RS-TF-56-4-B-C-.75	\$685	RD1-RS-TF-56C-4-B-C-.75	\$709	RD1-RS-TF-56C-4-B-C-.75-RND	\$705
1	1800	RD1-RS-TF-56H-4-B-C-1	\$875	RD1-RS-TF-56HC-4-B-C-1	\$925	RD1-RS-TF-56C-4-B-C-1-RND	\$911
	1800	RD1-RS-TF-143T-4-B-C-1	\$899	RD1-RS-TF-143TC-4-B-C-1	\$929	RD1-RS-TF-143TC-4-B-C-1-RND	-
1.5	1800	RD1-RS-TF-56H-4-B-C-1.5	\$961	RD1-RS-TF-56HC-4-B-C-1.5	\$1,017	RD1-RS-TF-56C-4-B-C-1.5-RND	\$969
	1800	RD1-RS-TF-145T-4-B-C-1.5	\$981	RD1-RS-TF-145TC-4-B-C-1.5	\$1,033	RD1-RS-TF-145TC-4-B-C-1.5-RND	-
2	1800	RD1-RS-TF-56H-4-B-C-2	\$1,072	RD1-RS-TF-56HC-4-B-C-2	\$1,184	RD1-RS-TF-56C-4-B-C-2-RND	\$1,088
	1800	RD1-RS-TF-145T-4-B-C-2	\$1,090	RD1-RS-TF-145TC-4-B-C-2	\$1,202	RD1-RS-TF-145TC-4-B-C-2-RND	-
3	1800	RD1-RS-TF-182T-4-B-B-3	\$1,597	RD1-RS-TF-182TC-4-B-B-3	\$1,674	RD1-RS-TF-182TC-4-B-B-3-RND	-
5	1800	RD1-RS-TF-184T-4-B-B-5	\$1,922	RD1-RS-TF-184TC-4-B-B-5	\$1,952	RD1-RS-TF-184TC-4-B-B-5-RND	-
7.5	1800	RD1-RS-TF-213TZ-4-B-B-7.5	\$3,004	RD1-RS-TF-213TCZ-4-B-B-7.5	\$3,105	RD1-RS-TF-213TCZ-4-B-B-7.5-RND	-
10	1800	RD1-RS-TF-215T-4-B-B-10	\$3,579	RD1-RS-TF-215TC-4-B-B-10	\$3,673	RD1-RS-TF-215TC-4-B-B-10-RND	-

Multiplier Code: R1

AUGER MOTORS

HP	Sync RPM	Model Number	Price
1/2	1800	RX1-RS-TF-56Y-4-B-C-.5	\$685
3/4	1800	RX1-RS-TF-56Y-4-B-C-.75	\$772
1	1800	RX1-RS-TF-56Y-4-B-C-1	\$941



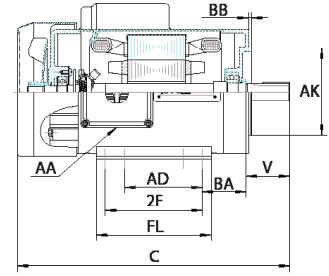
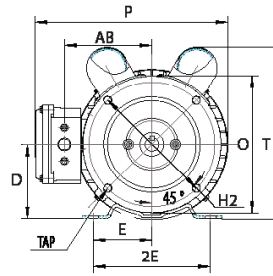
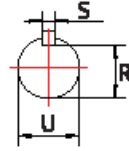
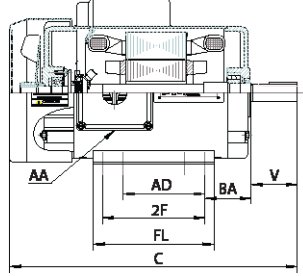
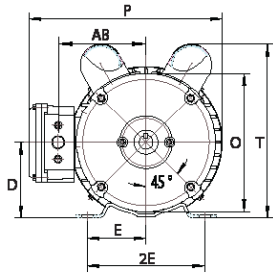
**Contact Techtop to
replace your unreliable
inefficient auger
gearboxes with high
efficiency Helical units**

Continued on back

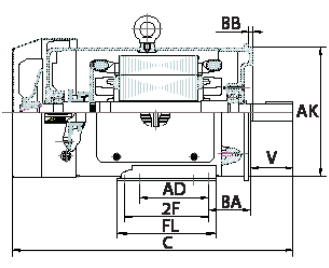
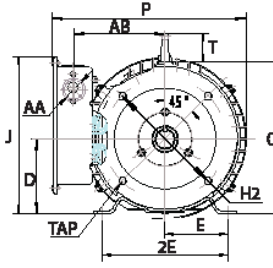
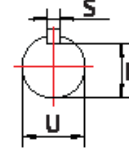
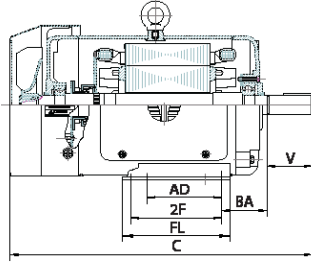
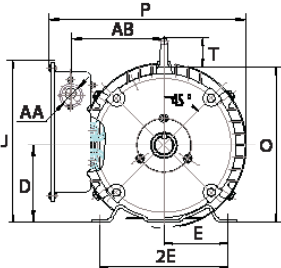
RIGID

SHAFT

C - FACE



FRAME	AA	AB	AD	AK	BA	BB	C	D	E	2E	FL	2F	O	P	R	S	T	U	V	TAP	H2
56 (1/3 HP)	0.88	3.7	2.65	---	2.25	---	10.7	3.5	2.44	4.88	4	3	5.67	8.3	0.517	0.188	7.7	0.625	1.88	---	---
56C (1/3 HP)				4.5		0.16														3/8-16	5.875
56				---		---														---	---
56C				4.5		0.16														3/8-16	5.875
143/145T				---		---														---	---
143/145TC		4.1	4	4.5		0.16			2.75	5.5	5.9	5	6.5	9.1	0.771		8.1	0.875	2.25	3/8-16	5.875



FRAME	AA	AB	AD	AK	BA	BB	C	D	E	2E	FL	2F	J	O	P	R	S	T	U	V	TAP	H2
182T	1.13	5.5	4.5	---	2.75	---	16.95	4.5	3.75	7.5	6.5	5.5	9.45	9.1	11.65	0.986	0.25	1.75	1.125	2.75	---	---
182TC				8.5		0.25															1/2-13	7.25
184T				---		---															---	---
184TC				8.5		0.25															1/2-13	7.25
213TZ*				---		---															---	---
213TCZ*				8.5		0.25															1/2-13	7.25
215T				---		---															---	---
215TC				8.5		0.25															1/2-13	7.25

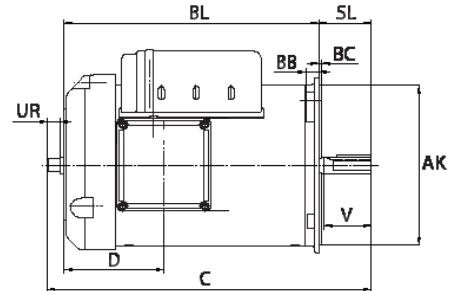
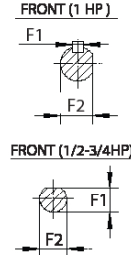
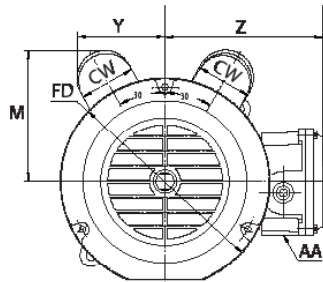
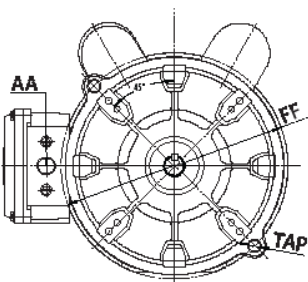
* 213TZ MOTOR INCLUDES SHAFT ADAPTER TO 215T SHAFT SIZE

FRONT

REAR

SHAFT

SIDE

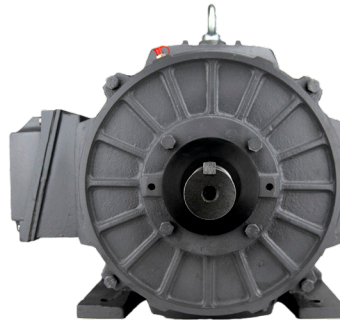
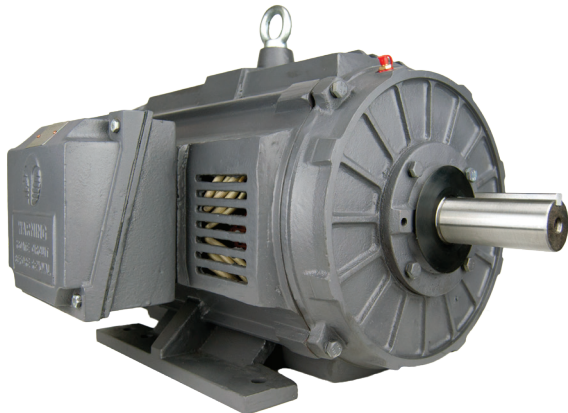


HP	AA	AK	BB	BC	BL	C	CW	D	FF	FD	F1	F2	M	SL	UR	V	Y	Z	TAP
0.5	0.875	6.375	0.52	0.12	8.51	11.2	1.93	3.95	7.25	7.3	0.45	0.5	5.3	2.02	0.5	1.875	---	5.53	0.36
0.75					10.11	12.8							4.6						
1.0					12.87	12.87					0.175	0.57	2.09						

HP: 1–150
Pole: 2/4

Frame: 143T–445T
Volt: 230/460V

RPM: 1800/3600
BODY: T



STANDARD FEATURES

- NEMA Premium Efficiency
- Inverter Rated - 15:1 Constant Torque
- MG1 Part 31 Compliant for VFD use
- IP 23 Rated - 40° Ambient Rating
- Double Lip Oil Seals on DE & ODE
- 1.25 SF up to 50HP (1.15 for larger frames)
- Vacuum Pressure Impregnated Winding
- Tropicalization Protection on Winding
- 1045 Steel Shaft (through 326T), 4140 (360T and up)
- Zerk Regreasable Bearings 254 Frame & Larger
- Nipple Seals Between Conduit Box and Body
- Rubber Slinger
- Conduit Box is 90° Rotatable
- Class H Insulation with Class F Stator
- C Flanges Available
- 36 Month Warranty from Date of Purchase

HP	Sync Speed	Model Number	List Price	
			Rigid Base	C-Face
1	3600	GR3-RS-OP-143T-2-B-D-1	\$749	\$845
	1800	GR3-RS-OP-143T-4-B-D-1	\$753	\$848
1.5	3600	GR3-RS-OP-143T-2-B-D-1.5	\$793	\$889
	1800	GR3-RS-OP-145T-4-B-D-1.5	\$819	\$914
2	3600	GR3-RS-OP-145T-2-B-D-2	\$878	\$973
	1800	GR3-RS-OP-145T-4-B-D-2	\$876	\$972
3	3600	GR3-RS-OP-145T-2-B-D-3	\$1,161	\$1,352
	1800	GR3-RS-OP-182T-4-B-D-3	\$1,141	\$1,332
5	3600	GR3-RS-OP-182T-2-B-D-5	\$1,273	\$1,465
	1800	GR3-RS-OP-184T-4-B-D-5	\$1,288	\$1,479
7.5	3600	GR3-RS-OP-184T-2-B-D-7.5	\$1,790	\$2,035
	1800	GR3-RS-OP-213T-4-B-D-7.5	\$1,814	\$2,059
10	3600	GR3-RS-OP-213T-2-B-D-10	\$2,053	\$2,298
	1800	GR3-RS-OP-215T-4-B-D-10	\$2,076	\$2,320
15	1800	GR3-CI-OP-254T-4-BR-D-15	\$2,872	\$3,136
20	1800	GR3-CI-OP-256T-4-BR-D-20	\$3,226	\$3,479
25	1800	GR3-CI-OP-284T-4-BR-D-25	\$3,850	\$4,176
30	1800	GR3-CI-OP-286T-4-BR-D-30	\$4,539	\$4,865
40	1800	GR3-CI-OP-324T-4-BR-D-40	\$5,937	\$6,414
50	1800	GR3-CI-OP-326T-4-BR-D-50	\$7,064	\$7,542
60	1800	GR3-CI-OP-364T-4-BR-D-60	\$9,411	\$10,076
75	1800	GR3-CI-OP-365T-4-BR-D-75	\$11,136	\$11,801
	1800	GR3-CI-OP-365T-4-RR-D-75	\$11,136	-
100	1800	GR3-CI-OP-404T-4-BR-D-100	\$13,374	\$14,208
	1800	GR3-CI-OP-404T-4-RR-D-100	\$13,374	-
125	1800	GR3-CI-OP-444T-4-BR-E-125	\$21,959	\$23,092
	1800	GR3-CI-OP-444T-4-RR-E-125	\$21,959	-
150	1800	GR3-CI-OP-445T-4-BR-E-150	\$26,252	\$27,384
	1800	GR3-CI-OP-445T-4-RR-E-150	\$26,252	-

Multiplier Code: G1

HP: 1/3–75

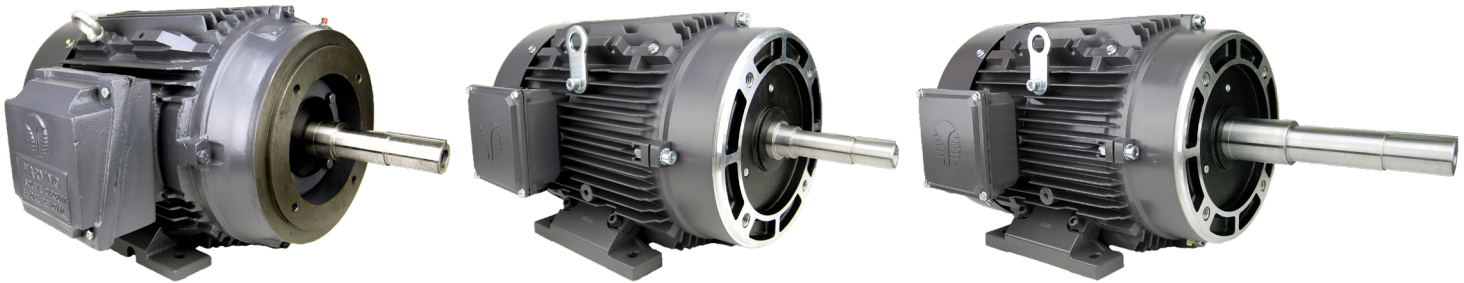
Frame: 56J–365JP

RPM: 3600/1800

Pole: 2/4

Volt: 230/460V

Body: J/JM/JP



STANDARD FEATURES

NEMA
PREMIUM

3Φ
Three Phase

SP
C US

CSA
E

ee

CE

UL
US

- NEMA Premium Efficiency
- IP 55 Ingress Protection
- MG1 Part 31 for VFD use
- Dual Voltage 230/460V (usable @ 208)
- 1.15 Service Factor
- 40° C Ambient Rating
- Double Lip Oil Seals
- 300 Series Stainless Steel Shaft
- Multi mount Removable Feet
- Stainless Steel Nameplate
- Tropicalized VPI Stator
- Inverter Rated - 20:1 Variable Torque
- One-Way Brass Condensation Drains
- Regreasable Bearings 254 Frame & Larger
- F1, F2, F3 Field Convertible (shipped F1)
- Class H Insulated Stator with Class F Leads
- Class 1, Div 2, Groups A, B, C & D Compliant

HP	Sync Speed	Model Number	List Price
1/3	3600	GR3-AL-TF-56J-2-B-D-.33	\$578
	1800	GR3-AL-TF-56J-4-B-D-.33	\$562
1/2	3600	GR3-AL-TF-56J-2-B-D-.5	\$609
	1800	GR3-AL-TF-56J-4-B-D-.5	\$592
3/4	3600	GR3-AL-TF-56J-2-B-D-.75	\$648
	1800	GR3-AL-TF-56J-4-B-D-.75	\$644
1	3600	GR3-AL-TF-56J-2-B-D-1	\$678
	1800	GR3-AL-TF-56J-4-B-D-1	\$727
	1800	GR3-AL-TF-143JM-4-B-D-1	\$810
	1800	GR3-AL-TF-143JP-4-B-D-1	\$810
1.5	3600	GR3-AL-TF-56J-2-B-D-1.5	\$711
	1800	GR3-AL-TF-56J-4-B-D-1.5	\$915
	3600	GR3-AL-TF-143JM-2-B-D-1.5	\$835
	1800	GR3-AL-TF-145JM-4-B-D-1.5	\$952
	3600	GR3-AL-TF-143JP-2-B-D-1.5	\$835
	1800	GR3-AL-TF-145JP-4-B-D-1.5	\$952
2	3600	GR3-AL-TF-56J-2-B-D-2	\$757
	1800	GR3-AL-TF-56J-4-B-D-2	\$967
	3600	GR3-AL-TF-145JM-2-B-D-2	\$960
	1800	GR3-AL-TF-145JM-4-B-D-2	\$1,007
	3600	GR3-AL-TF-145JP-2-B-D-2	\$960
	1800	GR3-AL-TF-145JP-4-B-D-2	\$1,007
3	3600	GR3-AL-TF-56J-2-B-D-3	\$1,020
	3600	GR3-AL-TF-145JM-2-B-D-3	\$1,333
	3600	GR3-AL-TF-182JM-2-B-D-3	\$1,455
	1800	GR3-AL-TF-182JM-4-B-D-3	\$1,453
	3600	GR3-AL-TF-145JP-2-B-D-3	\$1,333

HP	Sync Speed	Model Number	List Price
3	3600	GR3-AL-TF-182JP-2-B-D-3	\$1,455
	1800	GR3-AL-TF-182JP-4-B-D-3	\$1,453
5	3600	GR3-AL-TF-184JM-2-B-D-5	\$1,586
	1800	GR3-AL-TF-184JM-4-B-D-5	\$1,639
	3600	GR3-AL-TF-184JP-2-B-D-5	\$1,586
	1800	GR3-AL-TF-184JP-4-B-D-5	\$1,639
7.5	3600	GR3-AL-TF-184JM-2-B-D-7.5	\$2,172
	3600	GR3-AL-TF-213JM-2-B-D-7.5	\$2,233
	1800	GR3-AL-TF-213JM-4-B-D-7.5	\$2,278
	3600	GR3-AL-TF-184JP-2-B-D-7.5	\$2,172
	3600	GR3-AL-TF-213JP-2-B-D-7.5	\$2,233
	1800	GR3-AL-TF-213JP-4-B-D-7.5	\$2,278
10	3600	GR3-AL-TF-215JM-2-B-D-10	\$2,385
	1800	GR3-AL-TF-215JM-4-B-D-10	\$2,643
	3600	GR3-AL-TF-215JP-2-B-D-10	\$2,385
	1800	GR3-AL-TF-215JP-4-B-D-10	\$2,643
15	3600	GR3-AL-TF-215JM-2-B-D-15	\$3,692
	3600	GR3-CI-TF-254JM-2-BR-D-15	\$3,821
	1800	GR3-CI-TF-254JM-4-BR-D-15	\$3,716
	3600	GR3-AL-TF-215JP-2-B-D-15	\$3,692
	3600	GR3-CI-TF-254JP-2-BR-D-15	\$3,665
	1800	GR3-CI-TF-254JP-4-BR-D-15	\$3,564
20	3600	GR3-CI-TF-256JM-2-BR-D-20	\$4,199
	1800	GR3-CI-TF-256JM-4-BR-D-20	\$4,050
	3600	GR3-CI-TF-256JP-2-BR-D-20	\$4,199
	1800	GR3-CI-TF-256JP-4-BR-D-20	\$4,050
25	3600	GR3-CI-TF-256JM-2-BR-D-25	\$4,809

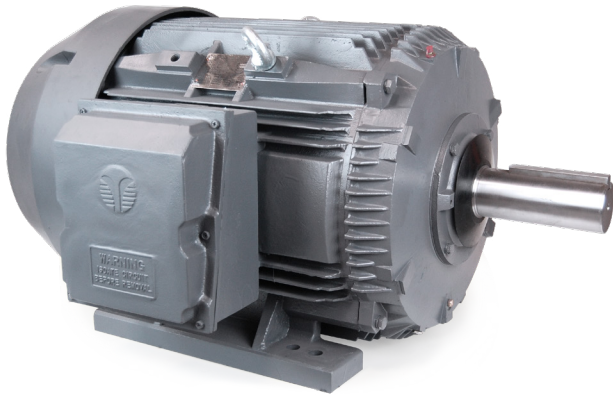
HP	Sync Speed	Model Number	List Price
25	3600	GR3-CI-TF-284JM-2-BR-D-25	\$4,904
	1800	GR3-CI-TF-284JM-4-BR-D-25	\$4,913
	3600	GR3-CI-TF-256JP-2-BR-D-25	\$4,809
	3600	GR3-CI-TF-284JP-2-BR-D-25	\$4,904
30	1800	GR3-CI-TF-284JP-4-BR-D-25	\$4,913
	3600	GR3-CI-TF-286JM-2-BR-D-30	\$5,738
	1800	GR3-CI-TF-286JM-4-BR-D-30	\$5,707
	3600	GR3-CI-TF-286JP-2-BR-D-30	\$5,738
40	1800	GR3-CI-TF-286JP-4-BR-D-30	\$5,707
	3600	GR3-CI-TF-286JM-2-BR-D-40	\$7,463
	3600	GR3-CI-TF-324JM-2-BR-D-40	\$7,578
	1800	GR3-CI-TF-324JM-4-BR-D-40	\$7,564
	3600	GR3-CI-TF-286JP-2-BR-D-40	\$7,589
	3600	GR3-CI-TF-324JP-2-BR-D-40	\$7,578
50	1800	GR3-CI-TF-324JP-4-BR-D-40	\$7,564
	3600	GR3-CI-TF-326JM-2-BR-D-50	\$8,602
	1800	GR3-CI-TF-326JM-4-BR-D-50	\$8,591
	3600	GR3-CI-TF-326JP-2-BR-D-50	\$8,602
60	1800	GR3-CI-TF-326JP-4-BR-D-50	\$8,591
	3600	GR3-CI-TF-364JM-2-BR-D-60	\$11,551
	1800	GR3-CI-TF-364JM-4-BR-D-60	\$11,565
	3600	GR3-CI-TF-364JP-2-BR-D-60	\$11,551
75	1800	GR3-CI-TF-364JP-4-BR-D-60	\$11,565
	3600	GR3-CI-TF-365JM-2-BR-D-75	\$13,332
	1800	GR3-CI-TF-365JM-4-BR-D-75	\$13,550
	3600	GR3-CI-TF-365JP-2-BR-D-75	\$13,332
1800	GR3-CI-TF-365JP-4-BR-D-75	\$13,550	

Multiplier Code: P1

HP: 75–300
Pole: 4/6

Frame: 365T–449T
Volt: 460V

RPM: 1800/1200
Body: T



STANDARD FEATURES



- NEMA Premium Efficiency- Design C Torque
- 6 Lead - 460V
- Drive-end Roller Bearing
- Oversized Bearings on DE & ODE
- 1.15 Service Factor
- 40° C Ambient Temperature Rated
- VPI Lap Wound Coil
- Wye-Delta Start Wound
- 4140 Carbon Steel Shaft
- Zerk Fitting Regreaseable Bearing
- Full Cast Iron Construction
- Double Lip Oil Seals on DE & ODE
- Rubber Slinger
- Split Conduit Box is 90° Rotatable
- F1 to F2 Field Convertible (Shipped F1)
- Class F Insulation with Class H Stator
- EISA Compliant
- 24 Month Warranty from Purchase Date

HP	Sync. Speed	Model Number	LRT	List Price
75	1800	OX3-CI-TF-365T-4-RR-E-75	331%	\$12,381
	1200	OX3-CI-TF-405T-6-RR-E-75	275%	\$14,522
100	1800	OX3-CI-TF-405T-4-RR-E-100	219%	\$14,869
	1200	OX3-CI-TF-444T-6-RR-E-100	210%	\$22,523
125	1800	OX3-CI-TF-444T-4-RR-E-125	269%	\$24,414
	1200	OX3-CI-TF-445T-6-RR-E-125	217%	\$26,867
150	1800	OX3-CI-TF-445T-4-RR-E-150	222%	\$29,186
	1200	OX3-CI-TF-447T-6-RR-E-150	236%	\$33,960
200	1800	OX3-CI-TF-447T-4-RR-E-200	243%	\$36,487
	1200	OX3-CI-TF-449T-6-RR-E-200	241%	\$42,454
250	1800	OX3-CI-TF-449T-4-RR-E-250	228%	\$41,403
300	1800	OX3-CI-TF-449T-4-RR-E-300	251%	\$47,352

**Lift Strap
Included**



Motors Manufactured to Order**

Multiplier Code: O1

HP: 1–300

Frame: 143T–449T

RPM: 3600/1800/1200

Pole: 2/4/6

Volt: 460V

Body: T



STANDARD FEATURES

- **TEFC IP 56 Protection**
- 40°C Ambient Temp. Rating
- Inverter Rated - 15:1 Constant Torque MG1 Part 31
- Complete Cast-Iron Construction
- 2-Part Epoxy Paint Protection
- **VPI with Tropicalization on Stator Windings**
- Dual Oversized Bearings on DE & ODE
- Labyrinth Seals Installed on DE & ODE
- **Felt Wiper on Inner Bearing Retainer**
- **Bearing Grease Chamber Pressure Relief Valve**



- **Stainless Steel Hardware**
- Regreasable Bearings
- **One-way Brass Condensation Drains**
- 1.25 Service Factor up to 50HP (1.15 for Larger Frames)
- C & D Flanges Available
- Meets IEEE 841 Standards / IEEE 45 Marine Duty
- **Class H Insulation**
- **Arc Arrestor Shaft Grounding Brush**
- 60 Month Warranty From Date of Shipment
- Class 1, Div 2, Groups A, B, C & D Certified



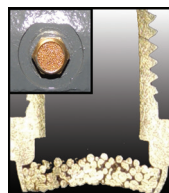
Labyrinth seals on both ends of motor



Class H - Silicone Lead wires with Fiberglass jacket protects leads from abrasion but remain flexible



Internal Shaft Grounding



Sintered brass breathers allow condensation to leave motor but resist water intrusion



Grease pressure reliefs act to battle overgreasing

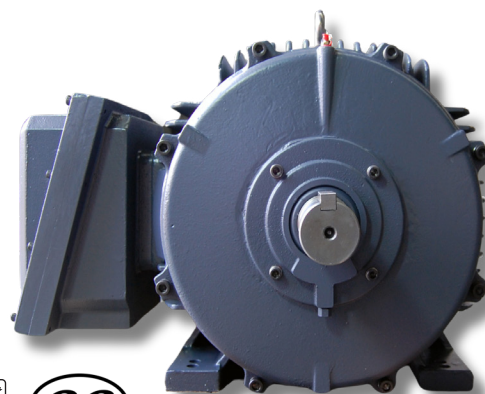
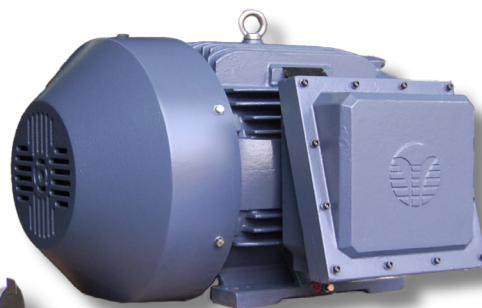
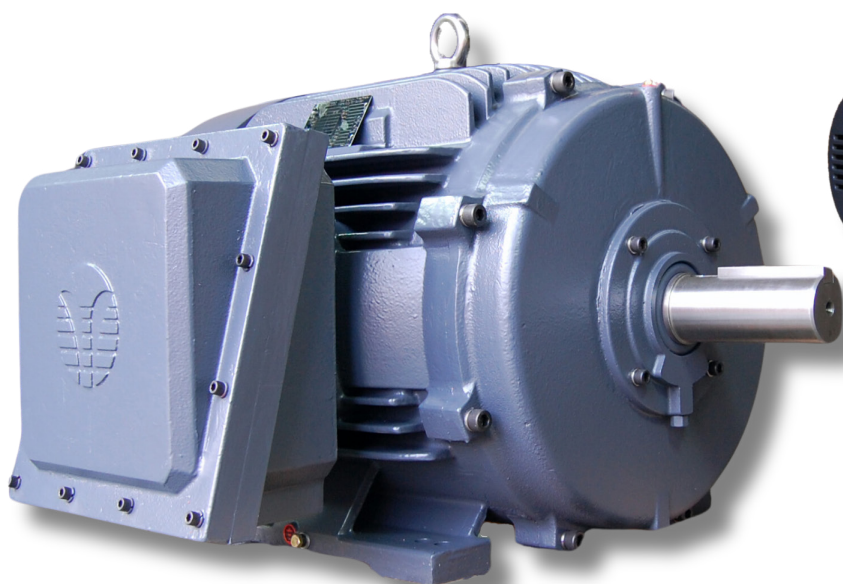
IEEE 841 MOTOR

MODEL AND LIST PRICES PRICE

HP	Sync. Speed	Model Number	List Price	
			Rigid Base	C-Face
1	3600	SD3-143T-2-BR-E-1	\$1,294	\$1,455
	1800	SD3-143T-4-BR-E-1	\$1,374	\$1,545
	1200	SD3-145T-6-BR-E-1	\$1,503	\$1,667
1.5	3600	SD3-143T-2-BR-E-1.5	\$1,361	\$1,522
	1800	SD3-145T-4-BR-E-1.5	\$1,495	\$1,666
	1200	SD3-182T-6-BR-E-1.5	\$2,039	\$2,419
2	3600	SD3-145T-2-BR-E-2	\$1,508	\$1,669
	1800	SD3-145T-4-BR-E-2	\$1,552	\$1,717
	1200	SD3-184T-6-BR-E-2	\$2,263	\$2,624
3	3600	SD3-182T-2-BR-E-3	\$1,997	\$2,317
	1800	SD3-182T-4-BR-E-3	\$2,081	\$2,421
	1200	SD3-213T-6-BR-E-3	\$2,764	\$3,172
5	3600	SD3-184T-2-BR-E-5	\$2,189	\$2,509
	1800	SD3-184T-4-BR-E-5	\$2,281	\$2,610
	1200	SD3-215T-6-BR-E-5	\$3,603	\$4,011
7.5	3600	SD3-213T-2-BR-E-7.5	\$3,076	\$3,484
	1800	SD3-213T-4-BR-E-7.5	\$3,216	\$3,638
	1200	SD3-254T-6-BR-E-7.5	\$5,046	\$5,564
10	3600	SD3-215T-2-BR-E-10	\$3,527	\$3,935
	1800	SD3-215T-4-BR-E-10	\$3,567	\$3,975
	1200	SD3-256T-6-BR-E-10	\$6,191	\$6,679
15	3600	SD3-254T-2-BR-E-15	\$4,828	\$5,261
	1800	SD3-254T-4-BR-E-15	\$4,836	\$5,267
	1200	SD3-284T-6-BR-E-15	\$7,741	\$8,372
20	3600	SD3-256T-2-BR-E-20	\$5,610	\$6,043
	1800	SD3-256T-4-BR-E-20	\$5,664	\$6,095
	1200	SD3-286T-6-BR-E-20	\$8,849	\$9,479
25	3600	SD3-284TS-2-BR-E-25	\$6,461	\$6,997
	1800	SD3-284T-4-BR-E-25	\$7,212	\$7,804
	1200	SD3-324T-6-BR-E-25	\$10,967	\$11,835
30	3600	SD3-286TS-2-BR-E-30	\$7,726	\$8,262
	1800	SD3-286T-4-BR-E-30	\$7,969	\$8,525
	1200	SD3-326T-6-BR-E-30	\$12,711	\$13,579

HP	Sync. Speed	Model Number	List Price	
			Rigid Base	C-Face
40	3600	SD3-324TS-2-BR-E-40	\$9,485	\$10,246
	1800	SD3-324T-4-BR-E-40	\$9,729	\$10,489
	1200	SD3-364T-6-BR-E-40	\$15,271	\$16,481
50	3600	SD3-326TS-2-BR-E-50	\$11,183	\$11,944
	1800	SD3-326T-4-BR-E-50	\$11,576	\$12,337
	1200	SD3-365T-6-BR-E-50	\$19,141	\$20,350
60	3600	SD3-364TS-2-BR-E-60	\$15,400	\$16,458
	1800	SD3-364T-4-BR-E-60	\$15,421	\$16,479
	1200	SD3-404T-6-RR-E-60	\$21,146	
75	3600	SD3-365TS-2-BR-E-75	\$17,937	\$18,995
	1800	SD3-365T-4-BR-E-75	\$18,248	\$19,306
	1800	SD3-365T-4-RR-E-75	\$18,248	\$19,306
100	1200	SD3-405T-6-RR-E-75	\$22,936	
	3600	SD3-405TS-2-BR-E-100	\$21,815	\$23,141
	1800	SD3-405T-4-BR-E-100	\$23,482	\$24,902
125	1800	SD3-405T-4-RR-E-100	\$23,482	
	1200	SD3-444T-6-RR-E-100	\$33,281	
	3600	SD3-444TS-2-BR-E-125	\$35,775	\$37,577
150	1800	SD3-444T-4-BR-E-125	\$35,984	\$37,785
	1800	SD3-444T-4-RR-E-125	\$35,984	
	1200	SD3-445T-6-RR-E-125	\$36,773	
200	3600	SD3-445TS-2-BR-E-150	\$43,020	\$44,472
	1800	SD3-445T-4-BR-E-150	\$43,020	\$44,821
	1800	SD3-445T-4-RR-E-150	\$42,673	
250	1200	SD3-447T-6-RR-E-150	\$42,907	
	3600	SD3-447TS-2-BR-E-200	\$51,295	\$53,097
	1800	SD3-447T-4-BR-E-200	\$53,783	\$55,585
300	1800	SD3-447T-4-RR-E-200	\$53,783	
	1200	SD3-449T-6-RR-E-200	\$58,107	
	3600	SD3-449TS-2-BR-E-250	\$58,207	\$60,526
350	1800	SD3-449T-4-BR-E-250	\$61,030	\$63,349
	1800	SD3-449T-4-RR-E-250	\$61,030	
	1800	SD3-449T-4-BR-E-300	\$76,713	\$79,034
400	1800	SD3-449T-4-RR-E-300	\$76,713	\$79,034

Multiplier Code: SD



Standard Features

- NEMA Premium
- 50/70°C Ambient Temperature Rated
- 1.15/1.0 Service Factor
- Certified for Hazardous Location
- IP 55 Ingress Protection
- Inverter Rated- 4:1 Constant Torque (MG1 Part 31)
- Dual Oversized Bearings with Labyrinth Seal
- Full Cast Iron Construction
- Vacuum Impregnated Stator
- Color Coded Lead wires
- Regreasable Bearings 254T and larger
- Hazard Location Cert. Condensate Drains
- Conduit Box is 90° Rotatable
- IEEE 45 Above/Below Deck and Boiler Room Cert.
- Zerk Regreasable Bearings
- Temp Code T4 ≤ 326T Frame/
- Temp Code T3C ≥ 364T
- Class 1, Division 1 Groups C, D
- Class 2, Division 1 Groups F, G
- Class 1-Zone 1/20/21-Group IIA/IIB Compliant
- 575 Volt Available
- C-Flanges Available ("TC" in Part #)
- 36 Month Warranty



HP	Poles	Model Number	List Price	Model Number C-Face*	List Price
1	4	XP3-143T-4-1	\$1,830	XP3-143TC-4-1	\$1,928
	6	XP3-145T-6-1	\$2,058	XP3-145TC-6-1	\$2,156
1.5	2	XP3-143T-2-1.5	\$1,949	XP3-143TC-2-1.5	\$2,047
	4	XP3-145T-4-1.5	\$2,058	XP3-145TC-4-1.5	\$2,156
2	6	XP3-182T-6-1.5	\$2,614	XP3-182TC-6-1.5	\$2,810
	2	XP3-145T-2-2	\$2,175	XP3-145TC-2-2	\$2,274
	4	XP3-145T-4-2	\$2,285	XP3-145TC-4-2	\$2,383
3	6	XP3-184T-6-2	\$2,977	XP3-184TC-6-2	\$3,173
	2	XP3-182T-2-3	\$2,750	XP3-182TC-2-3	\$2,947
	4	XP3-182T-4-3	\$2,860	XP3-182TC-4-3	\$3,056
5	6	XP3-213T-6-3	\$3,651	XP3-213TC-6-3	\$3,903
	2	XP3-184T-2-5	\$3,432	XP3-184TC-2-5	\$3,629
	4	XP3-184T-4-5	\$3,323	XP3-184TC-4-5	\$3,519
7.5	6	XP3-215T-6-5	\$4,579	XP3-215TC-6-5	\$4,831
	2	XP3-213T-2-7.5	\$4,007	XP3-213TC-2-7.5	\$4,258
	4	XP3-213T-4-7.5	\$4,353	XP3-213TC-4-7.5	\$4,604
	6	XP3-254T-6-7.5	\$5,549	XP3-254TC-6-7.5	\$5,833

Multiplier Code: X1

* Modification Required



HP	Poles	Model Number	List Price	Model Number C-Face*	List Price
10	2	XP3-215T-2-10	\$4,579	XP3-215TC-2-10	\$4,831
	4	XP3-215T-4-10	\$4,806	XP3-215TC-4-10	\$5,058
	6	XP3-256T-6-10	\$6,755	XP3-256TC-6-10	\$7,038
15	2	XP3-254T-2-15	\$6,611	XP3-254TC-2-15	\$6,895
	4	XP3-254T-4-15	\$6,545	XP3-254TC-4-15	\$6,829
	6	XP3-284T-6-15	\$8,467	XP3-284TC-6-15	\$8,832
20	2	XP3-256T-2-20	\$7,093	XP3-256TC-2-20	\$7,377
	4	XP3-256T-4-20	\$7,329	XP3-256TC-4-20	\$7,613
	6	XP3-286T-6-20	\$10,643	XP3-286TC-6-20	\$11,007
25	2	XP3-284TS-2-25	\$9,042	XP3-284TSC-2-25	\$9,407
	4	XP3-284T-4-25	\$9,395	XP3-284TC-4-25	\$9,760
	6	XP3-324T-6-25	\$12,937	XP3-324TC-6-25	\$13,472
30	2	XP3-286TS-2-30	\$10,416	XP3-286TSC-2-30	\$10,781
	4	XP3-286T-4-30	\$10,416	XP3-286TC-4-30	\$10,781
	6	XP3-326T-6-30	\$15,451	XP3-326TC-6-30	\$15,986
40	2	XP3-324TS-2-40	\$13,166	XP3-324TSC-2-40	\$13,701
	4	XP3-324T-4-40	\$13,738	XP3-324TC-4-40	\$14,273
	6	XP3-364T-6-40	\$19,229	XP3-364TC-6-40	\$19,974
50	2	XP3-326TS-2-50	\$17,171	XP3-326TSC-2-50	\$17,706
	4	XP3-326T-4-50	\$16,369	XP3-326TC-4-50	\$16,904
	6	XP3-365T-6-50	\$22,551	XP3-365TC-6-50	\$23,296
60	2	XP3-364TS-2-60	\$20,257	XP3-364TSC-2-60	\$21,002
	4	XP3-364T-4-60	\$20,257	XP3-364TC-4-60	\$21,002
	6	XP3-404T-6-60	\$28,042	XP3-404TC-6-60	\$28,976
75	2	XP3-365TS-2-75	\$25,984	XP3-365TSC-2-75	\$26,728
	4	XP3-365T-4-75	\$24,381	XP3-365TC-4-75	\$25,126
	6	XP3-405T-6-75	\$32,049	XP3-405TC-6-75	\$32,982
100	2	XP3-405TS-2-100	\$31,128	XP3-405TSC-2-100	\$32,062
	4	XP3-405T-4-100	\$30,902	XP3-405TC-4-100	\$31,835
	6	XP3-444T-6-100 **	\$45,787	XP3-444TC-6-100 **	\$46,961
125	2	XP3-444TS-2-125	\$43,018	XP3-444TSC-2-125	\$44,286
	4	XP3-444T-4-125 **	\$46,855	XP3-444TC-4-125 **	\$48,121
	6	XP3-445T-6-125 **	\$58,348	XP3-445TC-6-125 **	\$59,616
150	2	XP3-445TS-2-150	\$58,715	XP3-445TSC-2-150	\$59,981
	4	XP3-445T-4-150 **	\$63,039	XP3-445TC-4-150 **	\$64,307
	6	XP3-447T-6-150 **	\$80,966	XP3-447TC-6-150 **	\$82,232
200	2	XP3-447TS-2-200	\$81,094	XP3-447TSC-2-200	\$82,361
	4	XP3-447T-4-200 **	\$81,094	XP3-447TC-4-200 **	\$82,361
250	2	XP3-449TS-2-250	\$114,712	XP3-449TSC-2-250	\$116,345
	4	XP3-449T-4-250 **	\$114,712	XP3-449TC-4-250 **	\$116,345

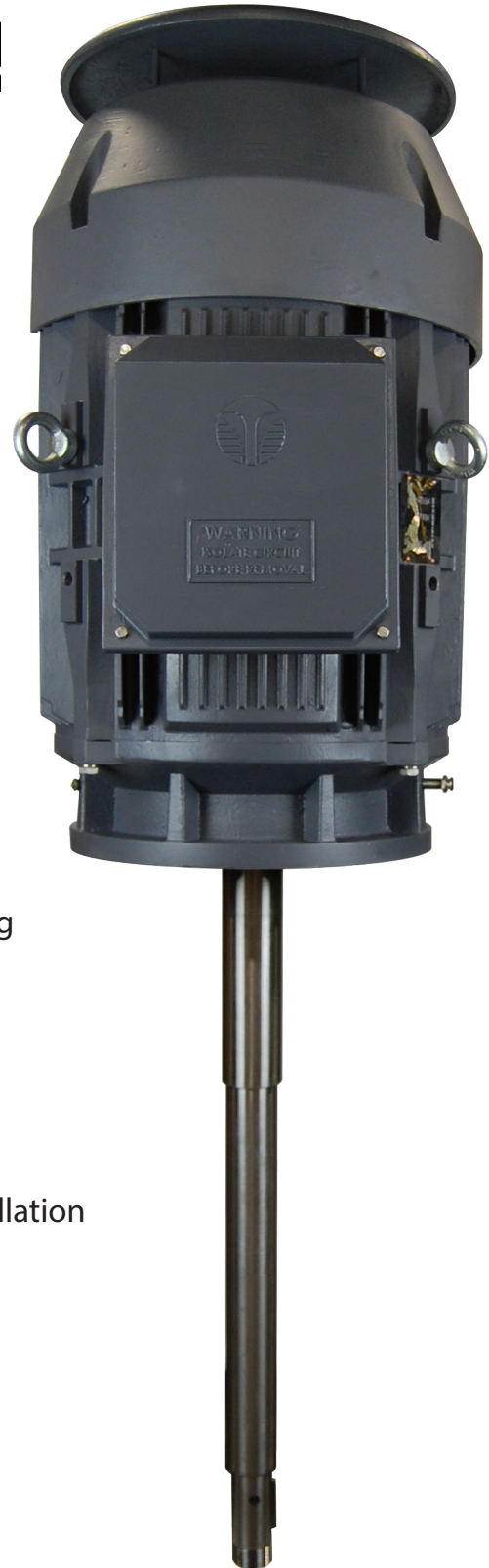
* Modification Required **Roller Bearing

Multiplier Code: X1



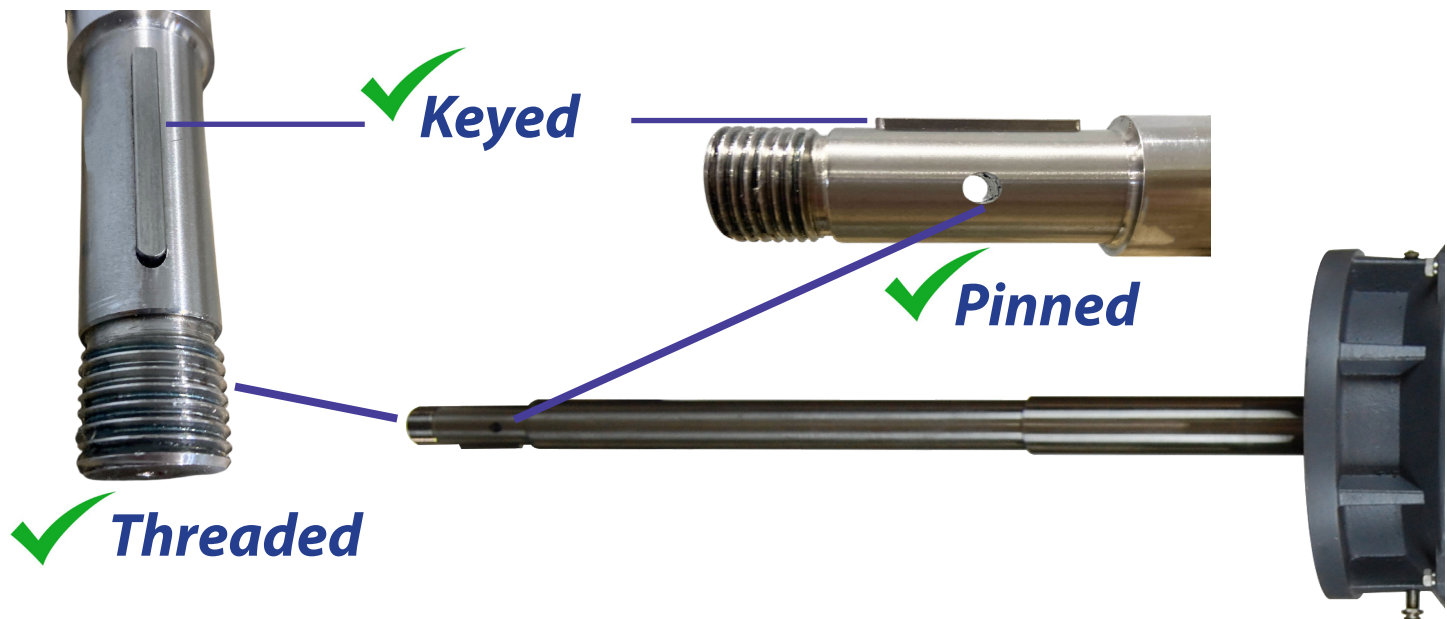
STANDARD FEATURES

- NEMA Premium Energy Efficiency Design
- Power Ratings/ RPM
 - ◇ 3 - 15 HP (1800 RPM)
 - ◇ 20 - 75 HP (1200 RPM)
- Totally Enclosed Fan Cooled (TEFC)
- **Space Heaters**
- **Class H 180°C Insulation System**
- 60Hz (50 Hz Capable)
- Rated Severe Chemical Duty
- Ambient Temperature 40°C
- Installation up to 3300ft
- IP 55
- Conduit Box completely potted with epoxy filler
- Inverter Duty 15:1 CT-1.0 SF
- Designed to Class B temperature rise
- Vacuum Impregnated Stator with tropicalization coating
- Dynamically balanced and vibration tested
- Heavy Duty Cast Iron motor construction
- Heavy Duty L10 100,000 hr. life bearings
- Double-row bearings on Drive-end
- 17- 4 PH Stainless Steel 1-Piece Shaft
- Shaft threaded and keyed on drive-end for simple installation or removal of prop
- Stainless Steel hardware & Nameplate
- Class 1, Division II, Groups A, B, C and D compliant
- Base Corrosion protection Primer coat
- 2-Part Epoxy Top Coat RAL7024 - Graphite Gray
- **36 Months from date of purchase**



HP	Sync Speed	Model No.	List Price
3	1800	AE3-182LP-4-D-3	\$4,797
5	1800	AE3-184LP-4-D-5	\$5,238
7.5	1800	AE3-213LP-4-D-7.5	\$7,081
10	1800	AE3-215LP-4-D-10	\$8,322
15	1800	AE3-254LP-4-D-15	\$9,578
20	1200	AE3-286LP-6-D-20	\$13,755
25	1200	AE3-324LP-6-D-25	\$17,211
	1200	AE3-364LPZ-6-D-25	\$20,858
30	1200	AE3-326LP-6-D-30	\$18,950
	1200	AE3-364LPZ-6-D-30	\$21,682
40	1200	AE3-364LP-6-E-40	\$23,863
50	1200	AE3-365LP-6-E-50	\$25,098
	1200	AE3-365LPZ-6-E-50	\$25,831
60	1200	AE3-404LP-6-E-60	\$35,838
75	1200	AE3-405LP-6-E-75	\$38,631

MULTIPLIER CODE: AE



Techtop Aerator Motors can be used whether you're in need of a keyed and threaded shaft, or a pinned shaft.

Techtop offers replacement motors for all previously manufactured aerators. The motors are 100% interchangeable with the following aerator manufactures, but with superior operating features.

We replace motors that are currently used on the following OEM units:

Aqua-Aerobics
Evoqua / **Xylem**
Aerator Solutions



Designed for use on SCR and PWM type direct current adjustable speed drives and on across-the-line DC controls. Ideal applications include conveyors, turntables, packaging or anywhere adjustable speed and constant torque is required.

STANDARD FEATURES

- SCR Rated
- 20:1 Constant Torque speed range
- 1.0 Service Factor
- Rolled Steel Frame Construction
- Bolt-on Removable Base
- Double Shielded Ball Bearings
- 1045 Steel Shaft
- Corrosion Resistant Hardware



- Continuous (S1) Duty
- Ambient Temperatures up to 40°C
- Installation up to 3300 ft. (1000 MASL)
- IP 54 (TEFC) & IP 55 (TENV) Rated
- Class F Insulation
- Class B Temperature Rise
- 12 Month Warranty

HP	Model Number	Sync. Speed	Frame	Voltage (DC)	Encl.	Full Load Amps (A)	Shipping Weight	"C" Dim	List Price
1/8	DC18-12-63-NV	1800	63B14	12 V	TENV	10.7	6	167mm	\$821
	DC18-90-63-NV	1800	63B14	90 V	TENV	1.4	6	167mm	\$694
1/4	DC14-12-63-NV	1800	63B14	12 V	TENV	21.5	8	216mm	\$901
	DC14-90-63-NV	1800	63B14	90 V	TENV	2.8	8	216mm	\$727
	DC14-90-56-NV	1800	56C	90 V	TENV	2.9	21	11.2"	\$589
	DC14-90-56-FC	1800	56C	90 V	TEFC	2.9	21	11.6"	\$610
1/3	DC13-90-56-NV	1800	56C	90 V	TENV	3.6	23	11.2"	\$637
1/2	DC12-90-56-NV	1800	56C	90 V	TENV	5.2	25	12.0"	\$750
	DC12-12-56-FC	1800	56C	12 V	TEFC	39.0	25	12.4"	\$1,099
	DC12-90-56-FC	1800	56C	90 V	TEFC	5.2	25	12.4"	\$727
	DC12-180-56-FC	1800	56C	180 V	TEFC	2.6	25	12.4"	\$727
3/4	DC34-90-56-FC	1800	56C	90 V	TEFC	7.8	30	13.9"	\$897
	DC34-180-56-FC	1800	56C	180 V	TEFC	3.9	30	13.9"	\$886
1	DC1-90-56-FC	1800	56C	90 V	TEFC	10.4	33	14.8"	\$972
	DC1-180-56-FC	1800	56C	180 V	TEFC	5.2	33	14.8"	\$940
1.5	DC112-180-145-FC	1800	145TC	180 V	TEFC	7.2	45	16.0	\$2,101
2	DC2-180-145-FC	1800	145TC	180 V	TEFC	10.4	55	16.8	\$2,344
3	DC3-180-145-FC	1800	145TC	180 V	TEFC	17	70	17.7	\$2,632

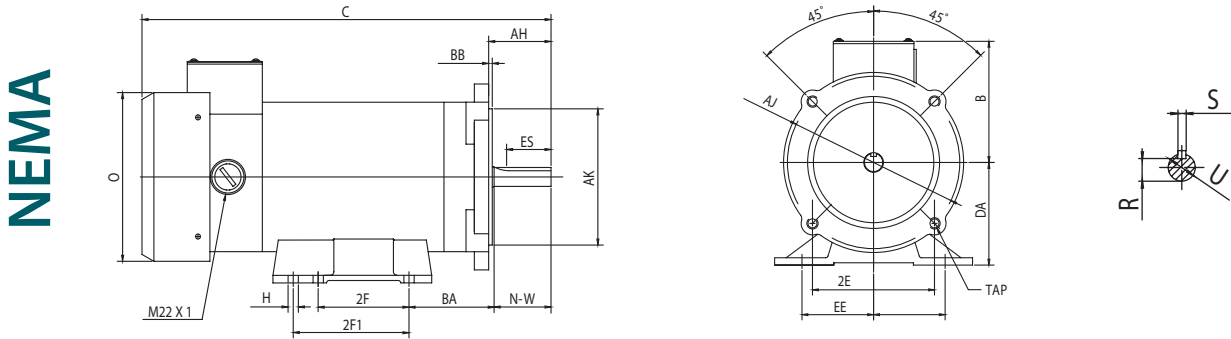
* FC = FAN COOLED NV = NON VENTILATED

Multiplier Code: DC

PM DC MOTOR REPLACEMENT PARTS

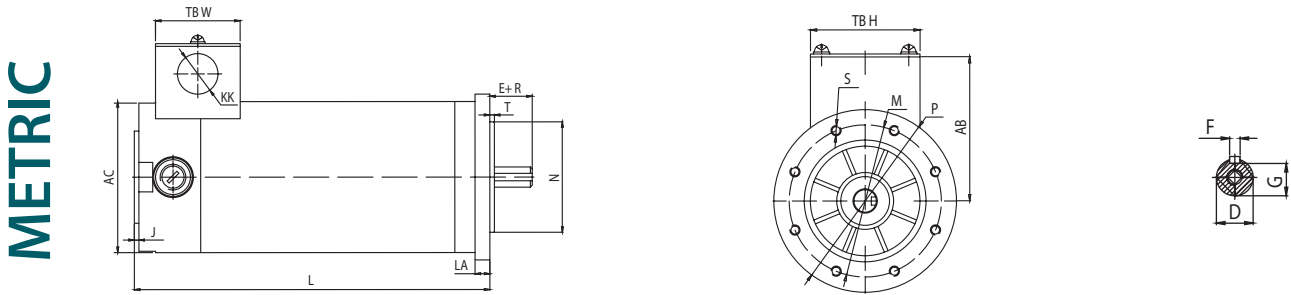
Part	Model Number	Description	List Price
Fan	DC4 FAN	External Cooling Fan for DC4 Series Motors	\$64
	DC8 FAN	External Cooling Fan for DC80/81/82 Series Motors	\$69
	DC8-CF	External Cooling Fan for 140T Frame Series Motors	\$69
Fan Cover	DC4 FAN COVER	External Cooling Fan Cover for DC4 Series Motors	\$99
	DC8 FAN COVER	External Cooling Fan Cover for DC80/81/82 Series Motors	\$110
Carbon Brush	DCRBIEC-16/18	MLD Carbon Brush 10mm x 5mm (DC16/DC18)	\$80
	DCRBIEC-14	MLD Carbon Brush 10mm x 8.5mm (DC14)	\$80
	DCRBN-56	MLD Carbon Brush 16mm x 6mm 56C	\$80
	DCRBN-140	MLD Carbon Brush 18mm x 10mm 140TC	\$124
Brush Caps	DCRBCIEC-14	MLD DC 63B14 Brush Caps	\$28
	DCRBCN-56	MLD DC 56C Brush Caps	\$28
	DCRBCN-140	MLD DC 140TC Brush Caps	\$28

DIMENSIONAL DRAWINGS



* NEMA measurements in inches

NEMA Frame (HP)	Encl.	Foot Mounting					Shaft						General				NEMA C-Flange			
		2E	2F	2F1	H	BA	N-W	U	S	R	ES	AH	C	D	O	AB	AJ	AK	BB	TAP
56C (1/4)	TEFC	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	11.63	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (1/4)	TENV	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	11.18	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (1/3)	TEFC	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	11.63	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (1/3)	TENV	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	11.18	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (1/2)	TEFC	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	12.44	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (1/2)	TENV	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	12.01	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (3/4)	TEFC	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	13.94	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
56C (1)	TEFC	4.88	3.0	--	0.34	2.75	1.875	0.625	0.188	0.517	1.41	2.063	14.75	3.5	5.625	4.0	5.875	4.50	0.125	3*75-16
145TC (1.5)	TEFC	5.5	4.0	5.0	0.32	2.75	2.0	0.875	0.188	0.771	1.41	2.120	16.00	3.5	7.0	4.5	5.875	4.50	0.125	3*75-16
145TC (2)	TEFC	5.5	4.0	5.0	0.32	2.75	2.0	0.875	0.188	0.771	1.41	2.120	16.75	3.5	7.0	4.5	5.875	4.50	0.125	3*75-16
145TC (3)	TEFC	5.5	4.0	5.0	0.32	2.75	2.0	0.875	0.188	0.771	1.41	2.120	17.72	3.5	7.0	4.5	5.875	4.50	0.125	3*75-16



* METRIC measurements in millimeters

IEC Frame (HP)	Encl.	Shaft				General						IEC B14 C-Flange						
		D	F	G	E+R	AC	AD	L	J	TBW	TBH	KK	M	N	P	T	LA	S
63 B14 (1/8)	TENV	Ø11	4	8.5	23	Ø82	71	144	2.5	65	54	Ø22	Ø75	Ø60	Ø90	2.5	8	8-M5
63 B14 (1/4)	TENV	Ø11	4	8.5	23	Ø82	71	193	2.5	65	54	Ø22	Ø75	Ø60	Ø90	2.5	8	8-M5

HP: 3–75

Pole: 4

Frame: 182–365

Volt: 230/460V

RPM: 1800

Body: T



STANDARD FEATURES



- TEFC - IP 55 Rated
- 3 Lead - 230V / 12 Lead - 460V
- Double Lip Oil Seals
- Cast Iron Construction
- Dual Oversized Bearings
- F1, F2, F3 Field Convertible (326T & Below)
- One-Way Brass Condensation Drains
- 24 Month Warranty

3 LEAD SINGLE VOLTAGE

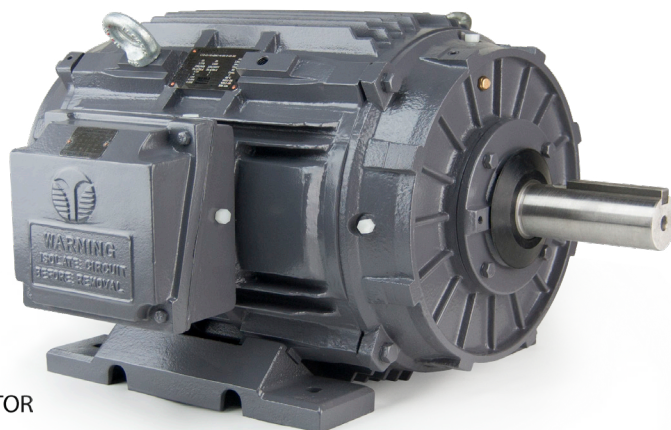
HP	Model Number	Voltage	List Price
3	PC3-CI-TF-182T-4-B-B-3	230	\$971
5	PC3-CI-TF-184T-4-B-B-5	230	\$1,165
7.5	PC3-CI-TF-213T-4-B-B-7.5	230	\$1,642
10	PC3-CI-TF-215T-4-B-B-10	230	\$1,915
15	PC3-CI-TF-254T-4-BR-B-15	230	\$2,790
20	PC3-CI-TF-256T-4-BR-B-20	230	\$3,156
25	PC3-CI-TF-284T-4-BR-B-25	230	\$3,705
30	PC3-CI-TF-286T-4-BR-B-30	230	\$4,405
40	PC3-CI-TF-324T-4-BR-B-40	230	\$5,739
50	PC3-CI-TF-326T-4-BR-B-50	230	\$6,637
60	PC3-CI-TF-364T-4-BR-B-60	230	\$8,506
75	PC3-CI-TF-365T-4-BR-B-75	230	\$9,843

12 LEAD DUAL VOLTAGE

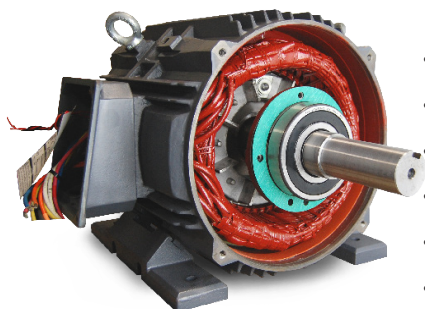
HP	Model Number	Voltage	List Price
3	PC3-CI-TF-182T-4-B-D-3	230/460	\$971
5	PC3-CI-TF-184T-4-B-D-5	230/460	\$1,165
7.5	PC3-CI-TF-213T-4-B-D-7.5	230/460	\$1,642
10	PC3-CI-TF-215T-4-B-D-10	230/460	\$1,915
15	PC3-CI-TF-254T-4-BR-D-15	230/460	\$2,790
20	PC3-CI-TF-256T-4-BR-D-20	230/460	\$3,156
25	PC3-CI-TF-284T-4-BR-D-25	230/460	\$3,705
30	PC3-CI-TF-286T-4-BR-D-30	230/460	\$4,405
40	PC3-CI-TF-324T-4-BR-D-40	230/460	\$5,739
50	PC3-CI-TF-326T-4-BR-D-50	230/460	\$6,637
60	PC3-CI-TF-364T-4-BR-D-60	230/460	\$8,506
75	PC3-CI-TF-365T-4-BR-D-75	230/460	\$9,843

Multiplier Code: PC

Techtop Cooling Tower motors are specifically built to combat the harsh cooling tower environments. Extreme wet environments require top-notch exterior ingress protection as well as high-performance condensation draining capability.



SPECIAL FEATURES



- Moisture resistant Stator Insulator Coating
- Drain provisions for all mounting positions
- Totally Enclosed Air Over Enclosure (TEAO)
- All direction conduit box drain provisions
- Dual Oversized Sealed Bearings
- Bearing Retainer Gaskets Installed
- Silicone Sealed End Bells
- 2 Part Epoxy Top Coat Sealant
- Lead Seal Conduit Box Gasket
- Space Heaters Installed
- Tapped Shaft for Vertical Lifting
- Stainless Steel Hardware

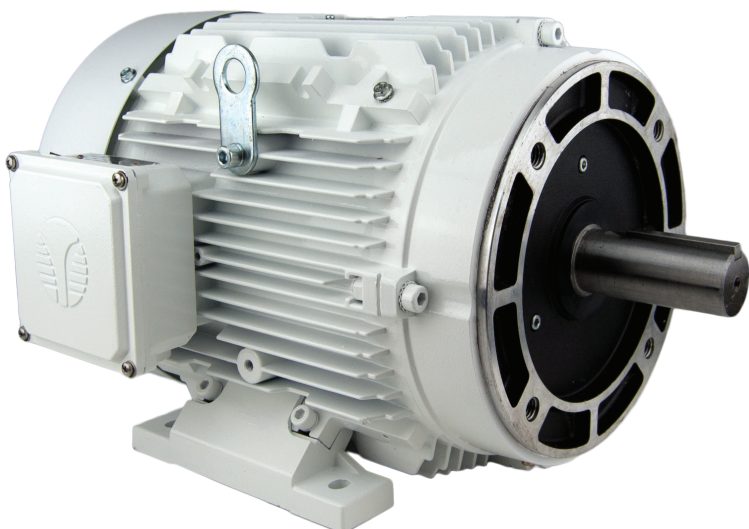
STANDARD FEATURES

- NEMA Premium Efficiency Rating
- Inverter Rated - 1000:1 Variable Torque
- MG 1 Part 31 Compliant for VFD use
- IP 55 Protection - 40°C Ambient Rating
- 1045 Steel Shaft (through 326T), 4140 (326T & up)
- Multi-mount Removable Feet through 326T
- One-Way Auto-purge Brass Condensation Drains
- 1.25 Service Factor to 50HP (1.15 SF above 50 HP)
- Conduit Box is 90° Rotatable
- Double Lip Shaft Seal on DE & ODE
- Shaft Grounding Brush Installed
- VPI Lap wound Stator with Tropicalization Coating
- Rubber Slinger on Shaft
- C & D Flanges Available upon request
- Available in TEFC enclosure upon request
- Class F Insulation System with Class H Stator
- F1, F2, F0 Field Convertible up to 326T (Shipped F1)
- Class 1, Div 2, Groups A,B,C & D Certified
- EISA Compliant
- 36 Month Warranty from Purchase Date

HP	Sync. Speed	NEMA Frame	Model Number	List Price
5	1800	184T	CT3-CI-TO-184T-4-B-D-5	\$2,377
7.5	1800	213T	CT3-CI-TO-213T-4-B-D-7.5	\$2,950
10	1800	215T	CT3-CI-TO-215T-4-B-D-10	\$3,210
15	1800	254T	CT3-CI-TO-254T-4-B-D-15	\$4,325
20	1800	256T	CT3-CI-TO-256T-4-B-D-20	\$4,836

HP	Sync. Speed	NEMA Frame	Model Number	List Price
25	1800	284T	CT3-CI-TO-284T-4-B-D-25	\$5,563
30	1800	286T	CT3-CI-TO-286T-4-B-D-30	\$6,309
40	1800	324T	CT3-CI-TO-324T-4-B-D-40	\$8,017
50	1800	326T	CT3-CI-TO-326T-4-B-D-50	\$9,239

Multiplier Code: CT



STANDARD FEATURES

- NEMA Premium Efficiency
- IP 56 Rated Protection
- 50/60 Hz Capable
- 1.15 Service Factor
- 9 Lead Dual Voltage
- Double Lip Oil Seals on DE & ODE
- Inverter Rated 15:1 Constant Torque for VFD use
- Multi-mount Removable Feet
- F1, F2, F3 Field Convertible (Shipped F1)
- Class F Insulation System (Class H Stator)
- One-Way Brass Condensation Drains on DE & ODE
- Designed to Class B Temperature Rise
- Drive End Bearing Locks
- VPI Insulated Windings
- EISA Compliant
- 24 Month Warranty
- Fully Potted Conduit Entry
- White Epoxy Coating
- Stainless Steel Shaft

HP	SYNC SPEED	Model Number	List Price	
			Rigid Base	C-Face
1/3	3600	WX3-AL-TF-56C-2-B-D-.33	-	\$960
	1800	WX3-AL-TF-56C-4-B-D-.33		\$950
1/2	3600	WX3-AL-TF-56C-2-B-D-.5		\$992
	1800	WX3-AL-TF-56C-4-B-D-.5		\$976
3/4	3600	WX3-AL-TF-56C-2-B-D-.75		\$1,034
	1800	WX3-AL-TF-56C-4-B-D-.75		\$1,030
1	3600	WX3-AL-TF-56C-2-B-D-1		\$1,069
	1800	WX3-AL-TF-56C-4-B-D-1		\$1,115
	1800	WX3-AL-TF-143T-4-B-D-1	\$1,274	\$1,377
	1200	WX3-AL-TF-145T-6-B-D-1	\$1,379	\$1,483
1.5	3600	WX3-AL-TF-56C-2-B-D-1.5	-	\$1,101
	1800	WX3-AL-TF-56C-4-B-D-1.5		\$1,302
	3600	WX3-AL-TF-143T-2-B-D-1.5	\$1,318	\$1,421
	1800	WX3-AL-TF-145T-4-B-D-1.5	\$1,348	\$1,451
	1200	WX3-AL-TF-182T-6-B-D-1.5	\$1,703	\$1,910
2	3600	WX3-AL-TF-56C-2-B-D-2	-	\$1,157
2	1800	WX3-AL-TF-56C-4-B-D-2	-	\$1,338
	3600	WX3-AL-TF-145T-2-B-D-2	\$1,413	\$1,517
	1800	WX3-AL-TF-145T-4-B-D-2	\$1,411	\$1,515
	1200	WX3-AL-TF-184T-6-B-D-2	\$1,894	\$2,101
3	3600	WX3-AL-TF-56C-2-B-D-3	-	\$1,401
	3600	WX3-AL-TF-143T-2-B-D-3		\$1,401
	3600	WX3-AL-TF-182T-2-B-D-3	\$1,884	\$2,091
	1800	WX3-AL-TF-182T-4-B-D-3	\$1,860	\$2,067
	1200	WX3-AL-TF-213T-6-B-D-3	\$2,568	\$2,832
5	3600	WX3-AL-TF-184T-2-B-D-5	\$2,009	\$2,216
	1800	WX3-AL-TF-184T-4-B-D-5	\$2,025	\$2,232
	1200	WX3-AL-TF-215T-6-B-D-5	\$3,112	\$3,376
7.5	3600	WX3-AL-TF-213T-2-B-D-7.5	\$2,770	\$3,035
	1800	WX3-AL-TF-213T-4-B-D-7.5	\$2,798	\$3,062
10	3600	WX3-AL-TF-215T-2-B-D-10	\$3,062	\$3,327
	1800	WX3-AL-TF-215T-4-B-D-10	\$3,088	\$3,352
15	3600	WX3-AL-TF-215T-2-B-D-15	\$4,266	\$4,404

Multiplier Code: W1

HP: 3–125

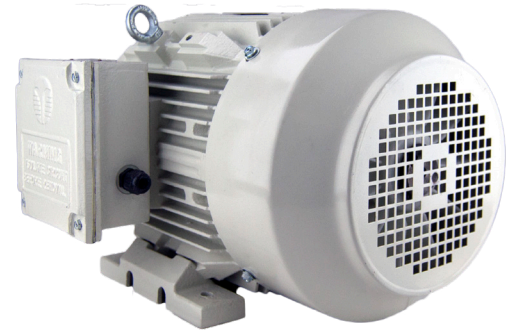
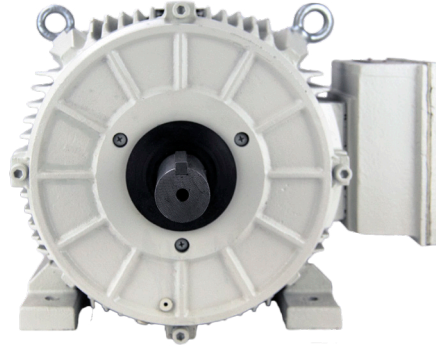
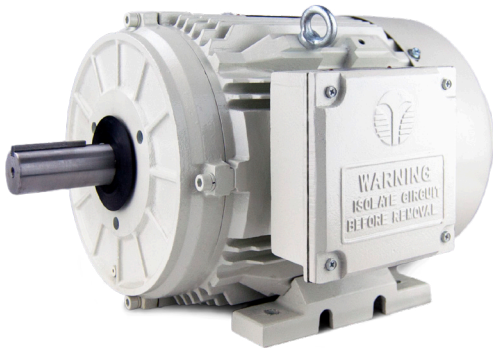
Pole: 6

Frame: 213T–445T

Volt: 230/460/796V

RPM: 1200

Body: T



STANDARD FEATURES



- 5% - 8% Slip NEMA Design “D” Operation
- Double Lip Oil Seals on Both Ends
- Cast Iron Terminal Box with Gasket
- Roller Bearing on 404T and Above
- TEFC Cast Iron Frame
- Corrosion Resistant Hardware
- Vacuum Impregnated Stator
- Mounting Position Convertible F1, F2, F3 (thru 326T)
- Class F Insulation System, Class H Stator
- Tropicalization on Stator Winding
- One-Way Brass Condensation Drains
- 24 Month Warranty from Date of Purchase

HP	Sync Speed	Model Number	List Price (USD)
3	1200	BK3-CI-TF-213T-6-B-G-3	\$1,531
5	1200	BK3-CI-TF-215T-6-B-G-5	\$1,904
7.5	1200	BK3-CI-TF-254T-6-BR-G-7.5	\$2,508
10	1200	BK3-CI-TF-256T-6-BR-G-10	\$2,995
15	1200	BK3-CI-TF-284T-6-BR-G-15	\$4,003
20	1200	BK3-CI-TF-286T-6-BR-G-20	\$4,419
25	1200	BK3-CI-TF-324T-6-BR-G-25	\$5,463
30	1200	BK3-CI-TF-326T-6-BR-G-30	\$6,666
40	1200	BK3-CI-TF-364T-6-BR-G-40	\$8,404
50	1200	BK3-CI-TF-365T-6-BR-G-50	\$9,354
60	1200	BK3-CI-TF-404T-6-RR-G-60	\$11,821
75	1200	BK3-CI-TF-405T-6-RR-G-75	\$13,400
	1200	BK3-CI-TF-444T-6-RR-G-75	\$16,918
100	1200	BK3-CI-TF-444T-6-RR-G-100	\$20,434
125	1200	BK3-CI-TF-445T-6-RR-G-125	\$24,215

Multiplier Code: B1



Frame: 140T–440T

Volt: 115/230/460

RPM: 1745



STANDARD FEATURES

**Extends Constant Torque Range of
GR3 Motors Down to 1000:1**

- Inverter Duty 1000:1 Turndown
- Direct Bolt-on to NEMA & IEC Frames
- Rolled Steel Construction
- Capacity: 198.35–1421.42 CFM
- Single Phase Power up to 320T Frame
- Three Phase Power 360T and up
- 18 Month Warranty
- Best use in Low Speed, Constant Torque Applications



	Frame	Power		Model Number	List Price (USD)
		Phase	Voltage		
NEMA	140T	1	115	BLWRKIT140T	\$925
	180T	1	115	BLWRKIT180T	\$1,229
	210T	1	115	BLWRKIT210T	\$1,493
	250T	1	115	BLWRKIT250T	\$1,578
	280T	1	115	BLWRKIT280T	\$2,156
	320T	1	115	BLWRKIT320T	\$2,757
	360T	3	230/460	BLWRKIT360T	\$3,665
	400T	3	230/460	BLWRKIT400T	\$4,389
	440T	3	230/460	BLWRKIT440T	\$4,697

	Frame	Power		Model Number	List Price (USD)
		Phase	Voltage		
IEC	63	1	115	BLWRKIT63-AL	\$815
	71	1	115	BLWRKIT71-AL	\$862
	80/56	1	115	BLWRKIT80/56-AL	\$925
	90/56	1	115	BLWRKIT90/56H-AL	\$952
	100	1	115	BLWRKIT100-AL	\$1,174
	112/180	1	115	BLWRKIT112/180-AL	\$1,265
	132/210	1	115	BLWRKIT132/210-AL	\$1,537

Multiplier Code: CP



BRAKE MOTORS - TEFC

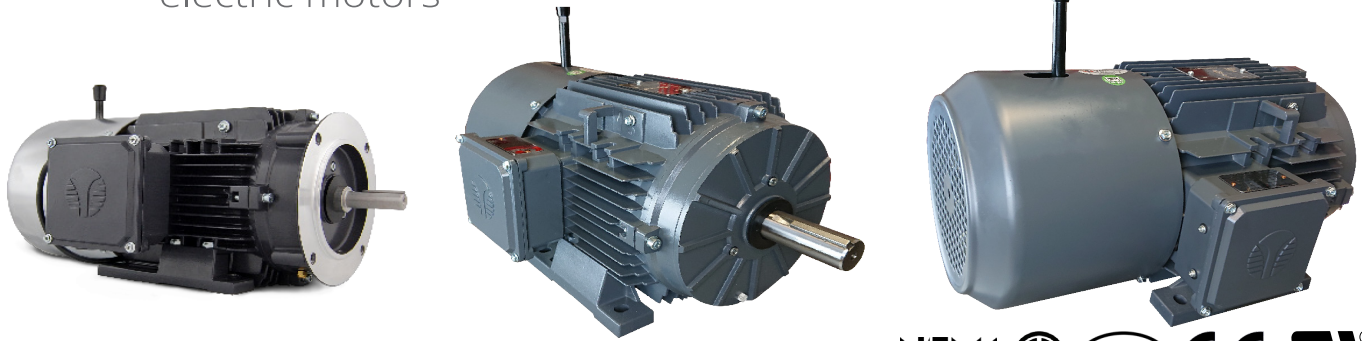


HP: 1/3 - 15HP

Frame: 56-215T, 63 - 112

RPM: 1800/3600

Volt: 230/ 460V



STANDARD FEATURES

- NEMA Premium Energy Efficiency Design
- Rectifier Installed for 208-230 or 460V operation.
- Manual Release Lever Included
- Multi-mount Design with Removable Feet
- 1.15 Service Factor
- 24 Month Warranty from purchase date

HP	Sync. Speed	NEMA Ratings		
		Base Model	List Prices	
			T	TC
1/3	1800	CB3-AL-TF-56C-4-B-D-.33-BRK		\$1,986
1/2	3600	CB3-AL-TF-56C-2-B-D-.5-BRK		\$2,042
	1800	CB3-AL-TF-56C-4-B-D-.5-BRK		\$2,022
3/4	3600	CB3-AL-TF-56C-2-B-D-.75-BRK		\$2,090
	1800	CB3-AL-TF-56C-4-B-D-.75-BRK		\$2,006
1	1800	CB3-AL-TF-56C-4-B-D-1-BRK		\$2,098
	3600	GX3-AL-TF-143T-2-B-D-1-BRK	\$2,156	\$2,262
	1800	GX3-AL-TF-143T-4-B-D-1-BRK	\$2,412	\$2,518
1.5	3600	GX3-AL-TF-143T-2-B-D-1.5-BRK	\$2,384	\$2,490
	1800	CB3-AL-TF-56HC-4-B-D-1.5-BRK	-	\$2,472
	1800	GX3-AL-TF-145T-4-B-D-1.5-BRK	\$2,644	\$2,750
2	3600	CB3-AL-TF-56HC-4-B-D-2-BRK	-	\$2,758
	3600	GX3-AL-TF-145T-2-B-D-2-BRK	\$2,570	\$2,676
	1800	GX3-AL-TF-145T-4-B-D-2-BRK	\$2,734	\$2,840
3	3600	CB3-AL-TF-56HC-2-B-D-3-BRK	-	\$2,626
	3600	GX3-AL-TF-182T-2-B-D-3-BRK	\$3,976	\$4,136
	1800	GX3-AL-TF-182T-4-B-D-3-BRK	\$4,030	\$4,238
5	3600	GX3-AL-TF-184T-2-B-D-5-BRK	\$4,168	\$4,328
	1800	GX3-AL-TF-184T-4-B-D-5-BRK	\$4,350	\$4,558
7.5	3600	GX3-AL-TF-213T-2-B-D-7.5-BRK	\$5,394	\$5,602
	1800	GX3-AL-TF-213T-4-B-D-7.5-BRK	\$5,642	\$5,908
10	3600	GX3-AL-TF-215T-2-B-D-10-BRK	\$5,720	\$5,986
	1800	GX3-AL-TF-215T-4-B-D-10-BRK	\$6,206	\$6,472
15	3600	GX3-AL-TF-215T-2-B-D-15-BRK	\$6,856	\$7,120

HP	Base Model	IEC Ratings		
		List Prices		
		B3	B35	B34
1/3	GR3-AL-TF-63B3-4-B-D-.33-BRK	\$1,300	\$1,470	\$1,380
1/2	GR3-AL-TF-71B3-2-B-D-.5-BRK	\$1,432	\$1,628	\$1,552
	GR3-AL-TF-71B3-4-B-D-.5-BRK	\$1,490	\$1,686	\$1,610
3/4	GR3-AL-TF-71B3-2-B-D-.75-BRK	\$1,480	\$1,676	\$1,600
	GR3-AL-TF-71B3-4-B-D-.75-BRK	\$1,640	\$1,836	\$1,760
1	GR3-AL-TF-80B3-2-B-D-1-BRK	\$1,996	\$2,236	\$2,084
	GR3-AL-TF-80B3-4-B-D-1-BRK	\$1,928	\$2,168	\$2,016
2	GR3-AL-TF-80B3-2-B-D-1.5-BRK	\$2,080	\$2,320	\$2,168
	GR3-AL-TF-90SB3-4-B-D-1.5-BRK	\$2,242	\$2,498	\$2,370
2	GR3-AL-TF-80B3-2-B-D-2-BRK	\$2,268	\$2,508	\$2,356
	GR3-AL-TF-90SB3-2-B-D-2-BRK	\$2,398	\$2,654	\$2,526
	GR3-AL-TF-90LB3-4-B-D-2-BRK	\$2,524	\$2,780	\$2,652
3	GR3-AL-TF-90LB3-2-B-D-3-BRK	\$2,566	\$2,822	\$2,694
	GR3-AL-TF-100LB3-4-B-D-3-BRK	\$3,342	\$3,838	\$3,502
4	GR3-AL-TF-100LB3-2-B-D-4-BRK	\$3,370	\$3,866	\$3,530
	GR3-AL-TF-100LB3-4-B-D-4-BRK	\$3,562	\$4,058	\$3,722
5.5	GR3-AL-TF-112MB3-2-B-D-5.5-BRK	\$4,066	\$4,582	\$4,286
	GR3-AL-TF-112MB3-4-B-D-5.5-BRK	\$4,418	\$4,934	\$4,638
7.5	GR3-AL-TF-132SB3-4-B-D-7.5-BRK	\$5,592	\$6,324	\$5,928
10	GR3-AL-TF-132MB3-4-B-D-10-BRK	\$6,124	\$6,856	\$6,460

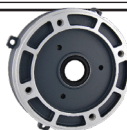
Multiplier Code: BK

Contact us for inquiries about adding a brake to unlisted motors.

Cast Iron C-Face Conversion Kit



Part #	Explosion Proof Part#	Description	List Price
CFK140T-Kit	CFKXP143/5T	143/5T Frame C-Face Kit	\$138
CFK180T-Kit	CFKXP182/4T	182/4T Frame C-Face Kit	\$269
CFK210-Kit	CFKXP213/5T	213/5T Frame C-Face Kit	\$343
CFK250T-M-Kit	CFKXP254/6T	254/6T Frame C-Face Kit	\$390
CFK280T-Kit	CFKXP284/6T	284/6T Frame C-Face Kit	\$500
CFKG320T-Kit	CFKXP324/6T	324/6T Frame C-Face Kit	\$733
CFKG360T-Kit	CFKXP364/5T	364/5T Frame C-Face Kit	\$1,084
CFKG400T-2P-Kit	CFKXP404/5T	404/5T Frame 2 Pole C-Face Kit	\$1,358
CFKG400T-4,6P-Kit		404/5T Frame 4/6 Pole C-Face Kit	\$1,358
CFKG440T-2P-Kit	CFKXP440T-2P	444/5/7T Frame 2 Pole C-Face Kit	\$1,687
CFKG440T-4,6P-Kit	CFKXP440T-4/6P	444/5/7/9T Frame 4/6 Pole C-Face Kit	\$1,690



Aluminum C-Face Conversion Kit

Part #	Description	List Price
CFK56-S-01	56C Frame C-Face Kit	\$118
CFK140T-AL-01	143/5T Frame C-Face Kit	\$154
CFK180T-AL-01	182/4T Frame C-Face Kit	\$305
CFK210T-AL-01	213/5T Frame C-Face Kit	\$390



Rolled Steel TEFC C-Face Kit**

Part #	Description	List Price
CFK56-RS-TF-1-01	56 Frame Single Phase C-Face Kit	\$88
CFK140T-RS-TF-1-01	143/5T Frame Single Phase C-Face Kit	\$88
CFK180T-RS-TF-1-01	182/4T Frame Single Phase C-Face Kit	\$239
CFK210T-RS-TF-1-01	213/5T Frame Single Phase C-Face Kit	\$272



D-Flange Conversion Kit

Part #	Description	List Price
DFK140T	143/5T Frame D-Flange Kit	\$201
DFK180T	182/4T Frame D-Flange Kit	\$217
DFK210T	213/5T Frame D-Flange Kit	\$236
DFK250T	254/6T Frame D-Flange Kit	\$502
DFK280T	284/6T Frame D-Flange Kit	\$648
DFK320T	324/6T Frame D-Flange Kit	\$1,068
DFK360	364/365 Frame D-Flange Kit	\$1,301
DFK400-2	404/5 Frame 2 Pole D-Flange Kit	\$1,556
DFK400-4,6	404/5 Frame 4/6 Pole D-Flange Kit	\$1,556
DFK440-2	444/5/7/9 Frame 2 Pole D-Flange Kit	\$1,808
DFK440-4,6	444/5/7/9 Frame 4/6 Pole D-Flange Kit	\$1,808

Aluminum Conduit Box



Part #	Description	List Price
AB140-GX	143/5T Frame Conduit Box	\$66
AB180	182/4T Frame Conduit Box	\$83
AB210	213/5T Frame Conduit Box	\$83



Cast Iron Conduit Box

Part #	Description	List Price
CB140	143/5T Frame Conduit Box	\$61
CB180	182/4T Frame Conduit Box	\$102
CB210	213/5T Frame Conduit Box	\$102
CB250	254/6T Frame Conduit Box	\$168
CB280	284/6T Frame Conduit Box	\$168
CB320	324/6T Frame Conduit Box	\$231
CB360	364/5T Frame Conduit Box	\$231
CB400	404/5T Frame Conduit Box	\$332
CB440	444/5/7/9T Frame Conduit Box	\$821

Cast Iron Feet (Pair)



Part #	Description	List Price
CRF143	143T Frame Cast Iron Feet	\$41
CRF145	145T Frame Cast Iron Feet	\$44
CRF182	182T Frame Cast Iron Feet	\$66
CRF184	184T Frame Cast Iron Feet	\$66
CRF213	213T Frame Cast Iron Feet	\$125
CRF215	215T Frame Cast Iron Feet	\$125
CRF254	254T Frame Cast Iron Feet	\$172
CRF256	256T Frame Cast Iron Feet	\$172
CRF284	284T Frame Cast Iron Feet	\$284
CRF286	286T Frame Cast Iron Feet	\$322
CRF324	324T Frame Cast Iron Feet	\$394
CRF326	326T Frame Cast Iron Feet	\$394

Aluminum Feet (Pair)



Part #	Description	List Price
ARF143-J	143T Frame Aluminum Feet	\$44
ARF145-J	145T Frame Aluminum Feet	\$44
ARF182-J	182T Frame Aluminum Feet	\$66
ARF184-J	184T Frame Aluminum Feet	\$66
ARF213-J	213T Frame Aluminum Feet	\$124
ARF215-J	215T Frame Aluminum Feet	\$124

Multiplier Code: CP

**MFG After 08/2022

*MFG After 08/2019

Run Capacitors



Part #	Description	List Price
RCAP 250v-30uf	Run Capacitor - 250V, 30uf	\$69
RCAP 250v-40uf	Run Capacitor - 250V, 40uf	\$91
RCAP 250v-60uf	Run Capacitor - 250V, 60uf	\$132
RCAP 250v-80uf	Run Capacitor - 250V, 80uf	\$105
RCAP 250v-100uf	Run Capacitor - 250V, 100uf	\$94
RCAP 250v-115uf	Run Capacitor - 250V, 115uf	\$116
RCAP 450v-20uf	Run Capacitor - 450V, 20uf	\$97
RCAP 450v-30uf	Run Capacitor - 450V, 30uf	\$107
RCAP 450v-40uf	Run Capacitor - 450V, 40uf	\$110
RCAP 450v-50uf	Run Capacitor - 450V, 50uf	\$179

Start Capacitors



Part #	Description	List Price
SCAP 125v-200uf	Start Capacitor - 125v, 200uf	\$42
SCAP 125v-250uf	Start Capacitor - 125v, 250uf	\$53
SCAP 125v-300uf	Start Capacitor - 125v, 300uf	\$55
SCAP 165v-300uf	Start Capacitor - 165v, 300uf	\$64
SCAP 165v-400uf	Start Capacitor - 165v, 400uf	\$77
SCAP 165v-500uf	Start Capacitor - 165v, 500uf	\$86
SCAP 330v-250uf	Start Capacitor - 330v, 250uf	\$113
SCAP 330v-350uf	Start Capacitor - 330v, 350uf	\$150
SCAP 350v-400uf	Start Capacitor - 350v, 400uf	\$209
SCAP 350v-500uf	Start Capacitor - 350v, 500uf	\$234

Manual Reset Thermal Overload



Part #	Description	List Price
MRT0033	4 Pole - 0.33 HP	\$118
MRT0050	4 Pole - 0.5 HP	\$118
MRT0075	4 Pole - 0.75 HP	\$118
MRT0100	4 Pole - 1 HP	\$118
MRT0150	4 Pole - 1.5 HP	\$118
MRT0200	4 Pole - 2 HP	\$118
MRT0300	4 Pole - 3 HP	\$118
MRT0500	4 Pole - 5 HP	\$118
MRT0750	4 Pole - 7.5 HP	\$448
MRT1000	4 Pole - 10 HP	\$448

Centrifugal Switches



Part #	Description	List Price
CSF56-4	56 Frame - 4 Pole Fixed	\$42
CSR56-4	56 Frame - 4 Pole Rotating	\$42
CSF180-4	182/4 Frame - 4 Pole Fixed	\$66
CSR180-4	182/4 Frame - 4 Pole Rotating	\$66
CSF210-4	213/5 Frame - 4 Pole Fixed	\$110
CSR210-4	213/5 Frame - 4 Pole Rotating	\$110

Plastic Fan



Part #	Description	List Price
PRF140-Kit*	143/5T Frame 2 Pole Fan	\$25
PRF180-Kit	182/4T Frame 2,4,6,8 Pole Fan	\$31

Plastic Fan (Continued)



Part #	Description	List Price
PRF210-P-Kit	213/5T Frame 2,4,6,8 Pole Fan	\$58
PRF250-2,6-Kit	254/6T Frame 2,6,8 Pole Fan	\$99
PRF250-4-Kit	254/6T Frame 4 Pole Fan	\$132
PRF280-2-Kit	284/6T Frame 2 Pole Fan	\$124
PRF280-4,6-Kit	284/6T Frame 4,6 Pole Fan	\$168
PRF320-2-Kit	324/6T Frame 2 Pole Fan	\$228
PRF320-4,6-Kit	324/6T Frame 4/6 Pole Fan	\$261
PRF360-2,4-Kit	364/5T Frame 2,4 Pole Fan	\$236
PRF360-6-Kit	364/5T Frame 6 Pole Fan	\$195
PRF400/440-2-Kit	404/405, 444/5 Frame 2 Pole Fan	\$363
PRF400-4,6-Kit	404/5T Frame 4/6 Pole Fan	\$398
PRF440-4-Kit	444/5/7/9T Frame 4 Pole Fan	\$426
PRF440-6-Kit	444/5/7/9T Frame 4/6 Pole Fan	\$426

Steel Fan Cover



Part #	Description	List Price
SFC140	143/5T Steel Fan Cover	\$25
SFC180	182/4T Steel Fan Cover	\$44
SFC210	213/5T Steel Fan Cover	\$61
SFC250	254/6T Steel Fan Cover	\$113
SFC280	284/6T Steel Fan Cover	\$135
SFC320	324/6T Steel Fan Cover	\$182
SFC360	364/6T Steel Fan Cover	\$250
SFC400	404/5T Steel Fan Cover	\$354
SFC440	444/5/7/9T Steel Fan Cover	\$453

Cast Iron Fan Cover



Part #	Description	List Price
CFC140T-Kit	143/5T Frame Fan Cover	\$176
CFC180T-Kit	182/4T Frame Fan Cover	\$239
CFC210T-Kit	213/5T Frame Fan Cover	\$308
CFC250T-Kit	254/6T Frame Fan Cover	\$439
CFC280T-Kit	284/6T Frame Fan Cover	\$659
CFC320T-Kit	324/6T Frame Fan Cover	\$804
CFC360T-Kit	364/5T Frame Fan Cover	\$952
CFC400T-Kit	404/5T Frame Fan Cover	\$1,210
CFC440T-Kit	444/5/7/9T Frame Fan Cover	\$1,345
CFC449TL-Kit	449TL Cast Iron Fan Cover	\$2,025

Steel Drip Cover



Part #	Description	List Price
DC56	Aluminum Frame 56C Drip Cover	\$33
DC140	143/5T Cast Iron Frame only Drip Cover	\$39
DC140-SFC	143/5T Frame Drip Cover (SFC only)	\$39
DC180	182/4T Frame Drip Cover	\$55
DC210	213/5T Frame Drip Cover	\$77
DC250	254/6T Frame Drip Cover	\$146
DC280	284/6T Frame Drip Cover	\$171
DC320	324/6T Frame Drip Cover	\$231
DC360	364/5T Frame Drip Cover	\$368

B35



Cast Iron B35 Conversion Kit

Part #	Description	List Price
B5KIT80-CI	B5 Standard Cast Iron Flange 80 Frame	\$129
B5KIT90-CI	B5 Standard Cast Iron Flange 90 Frame	\$154
B5KIT100-CI	B5 Standard Cast Iron Flange 100 Frame	\$217
B5KIT112-CI	B5 Standard Cast Iron Flange 112 Frame	\$233
B5KIT132-CI	B5 Standard Cast Iron Flange 132 Frame	\$261
B5KIT160	B5 Standard Cast Iron Flange 160 Frame	\$540
B5KIT180	B5 Standard Cast Iron Flange 180 Frame	\$697
B5KIT200	B5 Standard Cast Iron Flange 200 Frame	\$957
B5KIT225	B5 Standard Cast Iron Flange 225 Frame	\$1,020
B5KIT250	B5 Standard Cast Iron Flange 250 Frame	\$1,190
B5KIT280	B5 Standard Cast Iron Flange 280 Frame	\$1,531

+1 949 688-6032

Multiplier Code: CP

Aluminum B35 Conversion Kit

Part #	Description	List Price
B5KIT56	B5 Standard Aluminum Flange 56 Frame	\$49
B5KIT56-TL	B5 Standard Aluminum Flange For Single Phase IEC 56 Frame	\$49
B5KIT63-P	B5 Standard Aluminum Flange 63 Frame For Premium	\$63
B5KIT71-P	B5 Standard Aluminum Flange 71 Frame For Premium & BL1 metric	\$85
B5KIT80-P	B5 Standard Aluminum Flange 80 Frame For Premium	\$148
B5KIT90	B5 Standard Aluminum Flange 90 Frame	\$162
B5KIT90-MSP	B5 Aluminum Flange For Single Phase 90 Frame	\$137
B5KIT100	B5 Standard Aluminum Flange 100 Frame	\$230
B5KIT112-01	B5 Standard Aluminum Flange 112 Frame	\$291
B5KIT132	B5 Standard Aluminum Flange 132 Frame	\$431

Multiplier Code: CP

B14



Aluminum & Cast Iron B14 Conversion Kit

Part #	Description	List Price
B14KIT56	B14 Standard Aluminum Flange 56 Frame	\$27
B14KIT56-TL	B14 Standard Aluminum Flange For Single Phase IEC 56 Frame	\$27
B14KIT63-P	B14 Standard Aluminum Flange 63 Frame For Premium	\$36
B14KIT71-P	B14 Standard Aluminum Flange 71 Frame For Premium	\$52
B14KIT80-P	B14 Standard Aluminum Flange 80 Frame For Premium	\$74
B14KIT90	B14 Standard Aluminum Flange 90 Frame	\$93
B14KIT100	B14 Standard Aluminum Flange 100 Frame	\$123
B14KIT112	B14 Standard Aluminum Flange 112 Frame	\$165
B14KIT132	B14 Standard Aluminum Flange 132 Frame	\$250
B14KIT160	B14 Standard Cast Iron Flange 160 Frame	\$337

Multiplier Code: CP

Single Phase Cobra	Start Capacitor	List Price	Run Capacitor	List Price
CB1-AL-TF-56-2-B-C-.33	scap 125V-200uf-AL	\$25	rcap 250V-25uf-AL	\$30
CB1-AL-TF-56-2-B-C-.5	scap 125V-250uf-AL	\$27	rcap 250V-30uf-AL	\$30
CB1-AL-TF-56-2-B-C-.75	scap 125V-300uf-AL	\$33	rcap 250V-40uf-AL	\$44
CB1-AL-TF-56H-2-B-C-1	scap 165V-400uf-AL	\$49	rcap 250V-55uf-AL	\$58
CB1-AL-TF-56H-2-B-C-1.5	scap 165V-500uf-AL	\$66	rcap 250V-65uf-AL	\$63
CB1-AL-TF-56H-2-B-C-2	scap 165V-600uf-AL	\$80	rcap 250V-85uf-AL	\$88
CB1-AL-TF-56-4-B-C-.33	scap 165V-150uf-AL	\$33	rcap 250V-30uf-AL	\$30
CB1-AL-TF-56-4-B-C-.5	scap 165V-200uf-AL	\$36	rcap 250V-40uf-AL	\$44
CB1-AL-TF-56-4-B-C-.75	scap 165V-250uf-AL	\$38	rcap 250V-50uf-AL	\$55
CB1-AL-TF-56H-4-B-C-1	scap 165V-300uf-AL	\$41	rcap 250V-50uf-AL	\$55
CB1-AL-TF-56H-4-B-C-1.5	scap 165V-400uf-AL	\$49	rcap 250V-70uf-AL	\$71
CB1-AL-TF-56H-4-B-C-2	scap 165V-500uf-AL	\$66	rcap 250V-80uf-AL	\$82
CB1-AL-TF-56C-2-B-C-.33	scap 125V-200uf-AL	\$25	rcap 250V-25uf-AL	\$30
CB1-AL-TF-56C-2-B-C-.5	scap 125V-250uf-AL	\$27	rcap 250V-30uf-AL	\$30
CB1-AL-TF-56C-2-B-C-.75	scap 125V-300uf-AL	\$33	rcap 250V-40uf-AL	\$44
CB1-AL-TF-56C-2-B-C-1	scap 165V-350uf-AL	\$49	rcap 250V-50uf-AL	\$55
CB1-AL-TF-56C-2-B-C-1.5	scap 165V-500uf-AL	\$66	rcap 250V-65uf-AL	\$63
CB1-AL-TF-56HC-2-B-C-1	scap 165V-400uf-AL	\$49	rcap 250V-55uf-AL	\$58
CB1-AL-TF-56HC-2-B-C-1.5	scap 165V-500uf-AL	\$66	rcap 250V-65uf-AL	\$63
CB1-AL-TF-56HC-2-B-C-2	scap 165V-600uf-AL	\$80	rcap 250V-85uf-AL	\$88
CB1-AL-TF-56C-4-B-C-.33	scap 165V-150uf-AL	\$55	rcap 250V-30uf-AL	\$30
CB1-AL-TF-56C-4-B-C-.5	scap 165V-200uf-AL	\$68	rcap 250V-40uf-AL	\$44
CB1-AL-TF-56C-4-B-C-.75	scap 165V-250uf-AL	\$80	rcap 250V-50uf-AL	\$55
CB1-AL-TF-56C-4-B-C-1	scap 165V-300uf-AL	\$41	rcap 250V-60uf-AL	\$58
CB1-AL-TF-56HC-4-B-C-1	scap 165V-300uf-AL	\$41	rcap 250V-50uf-AL	\$55
CB1-AL-TF-143T-4-B-C-1	scap 165V-300uf-AL	\$41	rcap 250V-50uf-AL	\$55
CB1-AL-TF-56HC-4-B-C-1.5	scap 165V-400uf-AL	\$49	rcap 250V-70uf-AL	\$71
CB1-AL-TF-145T-4-B-C-1.5	scap 165V-400uf-AL	\$49	rcap 250V-70uf-AL	\$71
CB1-AL-TF-56HC-4-B-C-2	scap 165V-500uf-AL	\$66	rcap 250V-80uf-AL	\$82
CB1-AL-TF-145T-4-B-C-2	scap 165V-500uf-AL	\$66	rcap 250V-80uf-AL	\$82
CB1-AL-TF-145T-2-B-C-3	scap 165V-650uf-AL	\$82	rcap 250V-115uf-AL	\$118
CB1-AL-TF-145T-4-B-C-3	scap 165V-600uf-AL	\$80	rcap 250V-100uf-AL	\$96
CB1-AL-TF-182T-2-B-C-3	scap 165V-650uf-AL	\$82	rcap 250V-115uf-AL	\$118
CB1-AL-TF-182T-4-B-C-3	scap 165V-650uf-AL	\$82	rcap 250V-115uf-AL	\$118
CB1-AL-TF-182T-2-B-B-3	scap 300V-250uf-AL	\$69	rcap 450V-40uf-AL	\$49
CB1-AL-TF-182T-4-B-B-3	scap 350V-250uf-AL	\$69	rcap 450V-40uf-AL	\$49
CB1-AL-TF-184T-2-B-B-5	scap 300V-350uf-AL	\$77	rcap 450V-50uf-AL	\$55
CB1-AL-TF-184T-4-B-B-5	scap 350V-400uf-AL	\$118	rcap 450V-60uf-AL	\$63
CB1-AL-TF-184T-2-B-B-7.5	scap 300V-450uf-AL	\$99	rcap 450V-60uf-AL	\$63
CB1-AL-TF-213T-2-B-B-7.5	scap 330V-450uf-AL	\$110	rcap 450V-60uf-AL	\$63
CB1-AL-TF-213T-4-B-B-7.5	scap 350V-600uf-AL	\$154	rcap 450V-70uf-AL	\$74
CB1-AL-TF-215T-2-B-B-10	scap 330V-600uf-AL	-	rcap 450V-80uf-AL	\$82
CB1-AL-TF-215T-4-B-B-10	scap 350V-700uf-AL	-	rcap 450V-80uf-AL	\$82
CB1-AL-TF-215T-2-B-B-15	scap 330V-700uf-AL	\$156	rcap 450V-100uf-AL	\$126

Multiplier Code: CP



**Solid State
Switch Parts
Available!**

VHS SERIES MOTOR

Vertical Hollow Shaft



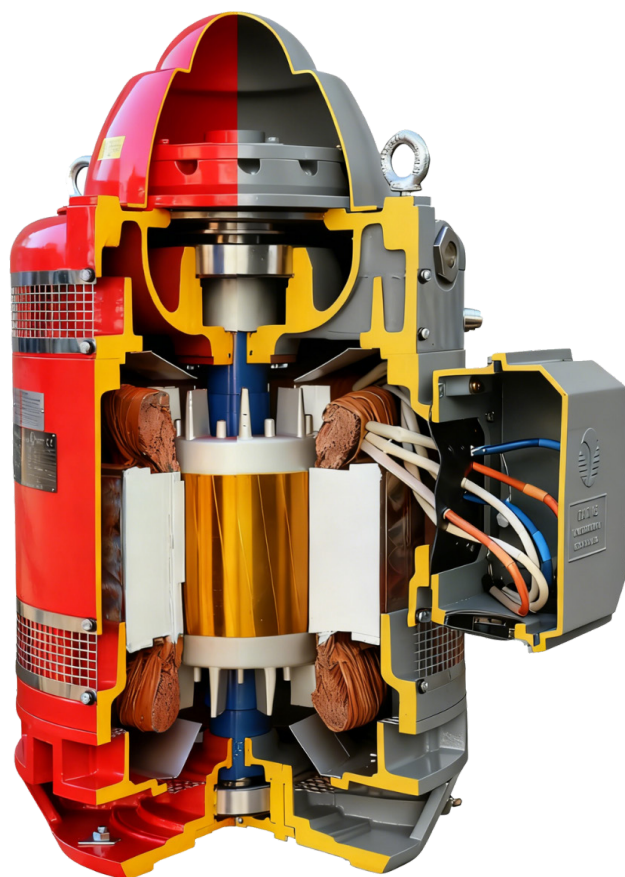
HP: 15–500**

Frame: 254TP - 5008TP**

RPM: 1200,1800, 3600* **Pole:** 6*, 4, 2* **Volt:** 230/460V

STANDARD FEATURES

- NEMA Premium Efficiency
- Non-Reverse Ratchet
- High-Strength Axial Load Design
- Vibration and Noise Reduction
- 1.15 Service Factor
- Inverter Rated 10:1 Constant Torque
- Class F Insulation
- High locked rotor torque
- Positive Temperature Coefficient (PTC) thermistors for overheat protection
- C3 Corrosion-Resistant Coating (ISO 12944) - Long durability (15–25 years): ~180 µm DFT (dry film thickness)
- Space heater for moisture condensation prevention
- Dual bearing for 75HP - 250HP (frame 365TP - 447TP)
- Larger lubrication oil chamber
- IP: WPI (Weather Protected Type I)
- 24 Month Warranty from Purchase Date



HP	Sync. Speed	Model Number	Coupling	Base	Downward Thrust	Frame	Price
15	1800	VHS-CI-254TP-4-D-15	1	10	2700	254TP	\$7,072
20	1800	VHS-CI-256TP-4-D-20	1	10		256TP	\$7,676
25	1800	VHS-CI-284TP-4-D-25	1	10		284TP	\$8,115
30	1800	VHS-CI-286TP-4-D-30	1	10		286TP	\$8,640
40	1800	VHS-CI-324TP-4-D-40	1.5	16.5	4600	324TP	\$12,205
50	1800	VHS-CI-326TP-4-D-50	1.5	16.5		326TP	\$13,230
60	1800	VHS-CI-364TP-4-E-60	1.5	16.5	4800	364TP	\$19,026
75	1800	VHS-CI-365TP-4-E-75	1.5	16.5		365TP	\$20,629
100	1800	VHS-CI-404TP-4-E-100	1.5	16.5	7000	404TP	\$25,713
125	1800	VHS-CI-405TP-4-E-125	1.5	16.5		405TP	\$29,253
150	1800	VHS-CI-444TP-4-E-150	1.5	16.5	9800	444TP	\$40,738
200	1800	VHS-CI-445TP-4-E-200	1.5	16.5		445TP	\$44,051
250	1800	VHS-CI-447TP-4-E-250	1.5	16.5		447TP	\$50,780
300	1800	VHS-CI-447TP-4-E-300	1.5	16.5	17150	447TP	\$57,745
350	1800	VHS-CI-447TP-4-E-350	1.5	16.5		447TP	\$63,375
400	1800	VHS-CI-447TP-4-E-400	1.5	16.5		447TP	\$68,997

Alternative Couplings Available!

Model Number	Price
CVHS-250/280T-1.188	\$154
CVHS-250/280T-1.25	\$154
CVHS-320/360T-1.18	\$197
CVHS-320/360T-1.5	\$197
CVHS-400T-1.563	\$326
CVHS-400T-1.688	\$326
CVHS-440T-1.75	\$435

Multiplier Code: CP

Multiplier Code: VS

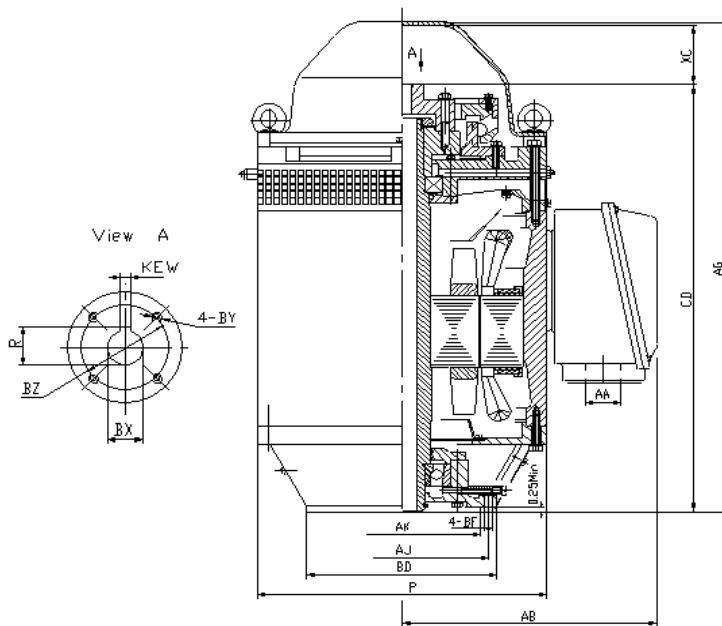
*2-Pole, 3600 RPM not stocked (15–100 HP), available from factory.

*6-Pole, 1200 RPM not stocked (200–250 HP), available from factory.

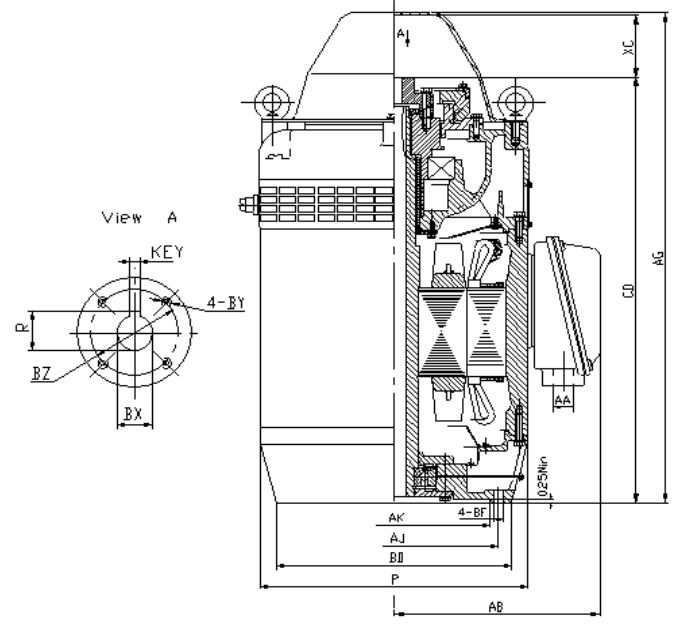
** Frames up to 5008T, 500 HP max (factory supported).

VHS SERIES MOTOR

Vertical Hollow Shaft



254TP~286TP



324TP~447TP

Model	Frame	Power (HP)	Mounting Dimension(Inch)												Outline Dimension(Inch)		
			BD	AJ	AK	BF	BX	BZ	KEY	R	BY	CD	XC>	AA	P	AB	AG
VHS-CI-254TP-4-D-15	254TP	15	10	9.13	8.25	0.44	1	1.38	0.25	1.11	10-32	23.38	3.25	1-1/4"	16.2	14.25	27.4
VHS-CI-256TP-4-D-20	256TP	20	10	9.13	8.25	0.44	1	1.38	0.25	1.11	10-32	23.38	3.25	1-1/4"	16.2	14.25	27.4
VHS-CI-284TP-4-D-25	284TP	25	10	9.13	8.25	0.44	1	1.38	0.25	1.11	10-32	24.75	3.25	1-1/2"	16.2	14.25	28.7
VHS-CI-286TP-4-D-30	286TP	30	10	9.13	8.25	0.44	1	1.38	0.25	1.11	10-32	24.75	3.25	1-1/2"	16.2	14.25	28.7
VHS-CI-324TP-4-D-40	324TP	40	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	28.22	4.69	NPT 3"	18.8	15.75	33.5
VHS-CI-326TP-4-D-50	326TP	50	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	28.22	4.69	NPT 3"	18.8	15.75	33.5
VHS-CI-364TP-4-E-60	364TP	60	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	31.16	4.69	NPT 3"	20.4	16.73	36.5
VHS-CI-365TP-4-E-75	365TP	75	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	31.16	4.69	NPT 3"	20.4	16.73	36.5
VHS-CI-404TP-4-E-100	404TP	100	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	36.94	5.5	NPT 3"	22.5	19	43
VHS-CI-405TP-4-E-125	405TP	125	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	36.94	5.5	NPT 3"	22.5	19	43
VHS-CI-444TP-4-E-150	444TP	150	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	44.78	5.13	NPT 3-1/2"	24.4	21.85	50.4
VHS-CI-445TP-4-E-200	445TP	200	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	44.78	5.13	NPT 3-1/2"	24.4	21.85	50.4
VHS-CI-447TP-4-E-250	447TP	250	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	49.78	5.13	NPT 3-1/2"	28	24	55.5
VHS-CI-447TP-4-E-300	447TP	300	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	49.78	5.13	NPT 3-1/2"	28	24	55.5
VHS-CI-447TP-4-E-350	447TP	350	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	49.78	5.13	NPT 3-1/2"	28	24	55.5
VHS-CI-447TP-4-E-400	447TP	400	16.5	14.75	13.5	0.69	1.5	2.13	0.38	1.67	1/4-20	49.78	5.13	NPT 3-1/2"	28	24	55.5

Built for the World

Global manufacturing • Local support • Trusted performance

Techtop serves customers across international markets through advanced manufacturing, strategic distribution and application-driven engineering support.

GLOBAL PRESENCE

- United States
- Canada
- China
- Europe
- Costa Rica
- Middle East
- Asia-Pacific



GLOBAL MANUFACTURING

High-volume production supported by established international facilities.

LOCAL SUPPORT

Regional inventory and responsive application assistance.

TRUSTED PERFORMANCE

Industrial-grade motors engineered for demanding applications.



POWERING INDUSTRY WORLDWIDE

Manufacturing scale. Regional reach. Application expertise.

TECHTOP GLOBAL NETWORK

Strategic Distribution Network

Inventory positioned closer to customers for faster, more reliable support

U.S. DISTRIBUTION REACH



ENGINEERED FOR INDUSTRY

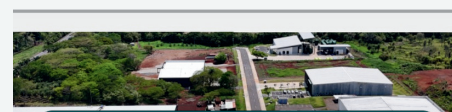
- | | |
|---------------------|----------------------|
| ● Agriculture | ● HVAC |
| ● Food Processing | ● Water & Wastewater |
| ● Material Handling | ● Mining |
| ● Oil & Gas | ● OEM Manufacturing |

GLOBAL GROWTH TIMELINE

- **2008** Global manufacturing service expansion
- **2010** U.S. distribution network
- **2025** Costa Rica facility established
- **2026** Enhanced OEM support

WHY GLOBAL CUSTOMERS CHOOSE TECHTOP

- | | |
|--------------------------|--------------------------------|
| ● High-volume production | ● Technical expertise |
| ● OEM customization | ● Reliable inventory |
| ● Competitive lead times | ● Industrial-grade performance |



COSTA RICA • EST. 2025
Expanded regional manufacturing

For current product specifications, availability and updates, visit TECHTOPIND.COM.



GENERAL TERMS AND CONDITIONS OF BUSINESS

1. Scope of Application. These Terms and Conditions govern all transactions between Techtop and Customer relating to the purchase and sale of all products manufactured by, or on behalf of, Techtop (the “Products”). Unless agreed to in writing by Techtop, different or additional terms proposed by Customer (including those in any Sales Orders submitted by Customer) are not binding. Except for the terms of a Sales Order accepted by Techtop, these Terms and Conditions supersede all previous communications, representations or agreements, whether written or oral, between the parties with respect to any transaction. There are no promises, terms, or obligations other than those contained in these Terms and Conditions and any signed Sales Orders between the parties.

2. Acceptance of Orders. Sales Orders are binding and enforceable against Customer once Customer signs and returns a Sales Order confirmation to Techtop. These Terms and Conditions are incorporated into each Sales Order by reference.

3. Prices. Product prices are denominated in United States Dollars.

4. Terms of Payment. Customer will pay Techtop in U.S. currency. If Customer defaults in any payment obligation set forth in the Sales Order, Techtop may cancel any pending deliveries. In addition, interest of one and one-half percent (1.5%) per month will accrue on any payment obligation not paid within 30 days of the invoice date and if any amounts owing by Customer are collected by or through an attorney at law, Customer will pay Techtop all costs of collection, including reasonable attorney’s fees, incurred by Techtop. Customer may not offset any sums due Techtop against any sums Techtop may owe Customer.

5. Title, Risk of Loss and Acceptance. Title to and risk of loss of the Products will pass to Customer upon delivery to the carrier at the shipping point. Customer will inspect the Products promptly upon receipt and report any defects to Techtop's Customer Service Center. All Product damaged in transit is at Customer’s risk and not the basis of a warranty claim. Customer is deemed to accept the Products on the earlier of use, resale, or 30 days from receipt.

6. Regulatory Approvals. Customer is responsible for obtaining and maintaining all customs and regulatory licenses, permits, approvals or authorizations to import the Products into Customer’s chosen destination. Techtop will reasonably assist Customer with the customs process on written request.

7. Design, Patents and Other Intellectual Property. Customer warrants that any Product manufactured by Techtop or its affiliates in accordance with Customer specifications will not infringe any patent of the United States or foreign jurisdiction. Customer will indemnify and hold harmless Techtop and its affiliates and their respective directors, officers, shareholders, employees, agents, successors and assigns, from and against any claims, damages, losses, and expenses including attorney’s fees and other costs of defense, if Techtop is required to defend a claim related to patent infringement or product failure resulting from Customer’s design specifications including the use of trademarks, trade names which may result in a claimed or actual violation of any party's trademark rights.

8. Taxes. Techtop price quotes do not include applicable sales, use, excise, and similar taxes which under applicable law are required to be paid as a result of the sale to Customer. Where applicable, taxes will be billed in absence of a valid exemption certificate on the full price of the Products, i.e., the amount prior to discounts due to trade-ins, credits, etc. Customer will remit applicable taxes directly to the taxing authorities and will indemnify Techtop with respect thereto.

9. Shipping and Freight Policy. Techtop will select the carrier(s) and routing of shipment and reserves the right to ship from any of its warehouse locations. For all shipments within the continental United States and no more than 800 miles from Techtop's warehouse, Customer will pay for freight on the following schedule.

Invoice Value	\$0 - \$1250	\$1251 - \$3000	\$3001 and up
Freight Charge	\$125 Flat Rate	10% of invoice	Paid by Techtop

Freight Terms are regulated by Techtop Policy and can be adjusted at any time

10. Cancellation, Alteration, and Blanket Orders.

10.1 Cancellation or Alteration of Accepted Orders. A Sales Order or purchase order accepted by Techtop may not be canceled, suspended, delayed, modified, altered, or rescheduled by Customer except with Techtop’s prior written consent from an authorized Techtop representative. Any unauthorized attempt to cancel, delay, or alter an accepted order will be deemed a material breach of contract, and Techtop reserves the right to halt production, withhold shipment, and hold Customer liable for all associated costs, losses, and expenses.

10.2 Standard Stock Products. If Techtop grants written consent to cancel standard, non-modified stock Products, Customer will pay a restocking fee equal to twenty percent (20%) of the total contract price.

10.3 Custom or Modified Products. Orders for non-standard, custom-engineered, special-built, configured, or modified Products may not be canceled or modified once material procurement or manufacturing has begun. If Customer cancels or attempts to cancel any such custom or modified order, Customer will be responsible for one hundred percent (100%) of the total contract value.

10.4 Blanket Orders. If Techtop accepts a blanket purchase order, the blanket order must include a release and delivery schedule approved by Techtop. The agreed timeline may not exceed twelve (12) months from the initial order confirmation date unless Techtop management approves otherwise in writing. Customer must issue releases and accept shipment in accordance with the approved schedule. If Customer

fails to issue releases, delays shipment, or does not accept shipment by the agreed final shipment date, Techtop may ship and invoice all remaining Products covered by the blanket order.

10.5 Changes to Quantities, Designs, or Delivery Dates. Customer must submit any requested changes to quantities, designs, release dates, or delivery dates in writing at least thirty (30) days prior to the scheduled ship date, and any such change is subject to Techtop’s written approval. Techtop reserves the right to adjust unit prices if Customer changes the total order quantity, Product configuration, or production timeline.

10.6 Storage, Payment, and Indemnification. If Customer requests a delay in scheduled delivery and Techtop approves the delay, Techtop may charge a monthly storage fee equal to one and one-half percent (1.5%) of the delayed Products’ contract value, accruing monthly until shipment. All cancellation, storage, and related charges are payable upon invoice. If Techtop permits cancellation of any accepted order, Customer will indemnify Techtop for all losses resulting from such cancellation.

11. Notice. All notices, requests, demands or other communications permitted or required to be given to Techtop pursuant to these Terms and Conditions will be in writing and shall be deemed to have been given, if sent, by U.S. mail, registered or certified mail, return receipt requested, postage prepaid, addressed to Techtop at 2815, Colonnades Court, Peachtree Corners, Georgia 30071, or at such other address as Techtop may designate in writing from time to time.

12. Defaults. If Customer defaults on any obligation or condition, Techtop may cancel the unfulfilled portion of the Sales Order and pursue all remedies available at law or in equity.

13. Limited Warranty and Return of Goods. For the applicable warranty period commencing on the date of delivery (as identified below) Techtop warrants that under normal and reasonable use, the Products will be free from defects in materials. This warranty will not apply to Products: (a) that have been repaired or altered by anyone other than Techtop; (b) contain components purchased from anyone other than Techtop; (c) that have been damaged, misused and/or mishandled; or (d) that have been operated, maintained, serviced, or stored, not in conformity with Techtop’s written instructions concerning operation, maintenance, service, and storage.

OTHER THAN AS EXPRESSLY CONTAINED HEREIN THERE ARE NO WARRANTIES OF ANY KIND OR NATURE, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE.

If, within the applicable warranty period, Customer discovers any defect in the materials or workmanship of any of the Products, Customer must promptly notify Techtop in writing of such defect and return the defective Product to Techtop. Techtop will inspect the Product and if required, Techtop, at its sole discretion and as Customer’s sole remedy, will repair or replace the defective Product, or refund the purchase price for the defective Product. The Limited Warranty does not include reimbursement to Customer for costs and expenses of transportation, freight, labor, removal, or other expenses incurred in connection with Customer’s return of the defective Product. Customer acknowledges that the remedies provided herein are exclusive and in lieu of all other remedies.

Warranty Period

Type	All Single Phase	Blue Line 3 Phase	Green Line 3 Phase	Brown Line 3 Phase	Black Line 3 Phase	Gray Line 3 Phase	Orange Line 3 Phase
Months	18	24	36	60	24	24	24

Techtop reserves the right to have any purportedly “defective” Product shipped to a Techtop authorized service shop for inspection. If upon inspection the Product is found to fit any of the conditions that invalidate the warranty, the Customer will pay the full price of any replacement Product supplied to Customer, including shipping costs. Customer may request further inspection of the motor by a second Techtop authorized service shop to confirm or contradict the findings of the first, at Customer’s expense.

Products are sold without return privileges except with prior written authorization by Techtop. Customers seeking return authorization must provide the invoice number, shipment date and reason for the request. Except where items were damaged in transit, returns must be in clean factory packaging. All returns must be made by prepaid transportation. The credit for authorized returns will be based on the Sales Order.

14. Limitation of Liability. IN NO EVENT WILL TECHTOP OR ITS DIRECTORS, SHAREHOLDERS, OFFICERS, EMPLOYEES OR REPRESENTATIVES BE LIABLE TO CUSTOMER FOR ANY INDIRECT, CONSEQUENTIAL, SPECIAL, CONTINGENT, EXEMPLARY, OR INCIDENTAL DAMAGES OR EXPENSES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF PRODUCTION, DOWN TIME, OR BUSINESS INTERRUPTION), WHETHER CAUSED BY OR RELATED TO ANY DEFECTIVE PRODUCTS OR ARISING FROM THE FOREGOING WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY EVEN IF TECHTOP HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN ALL EVENTS, TECHTOP’S LIABILITY WHETHER BASED IN TORT, BREACH OF CONTRACT, BREACH OF WARRANTY, OR OTHERWISE, WILL NOT EXCEED THE PURCHASE PRICE PAID BY CUSTOMER WITH RESPECT TO THE PRODUCT WITH RESPECT TO WHICH A CLAIM ARISES OR IS ASSERTED.

15. Customer Modifications. Any tampering, alteration or service (including the replacement of parts or addition of parts or components) could render the Product unsafe and/or ineffective. Such activities will void the Product’s warranty and/or service maintenance agreement, if one.

16. Indemnification and Hold Harmless. Customer will defend, indemnify, reimburse, and hold Techtop and its successors, assigns, affiliates, officers, directors, employees, agents, and servants (“**Indemnities**”) harmless from any or all liabilities, obligations, damages, injuries, penalties, claims, demands, actions, suits, judgments, and any and all costs and expenses (including, without limitation, reasonable attorney’s fees and expenses) of whatever kind and nature imposed on, asserted against, or incurred by any of the Indemnities in any way arising out of or relating to any act or omission of Customer or its employees or agents or Customer’s or its employees or agents breach of any

term or condition of this Agreement.

17. Security Arrangement. Techtop hereby reserves a purchase money security interest in the Products sold by Techtop to Customer, and the proceeds thereof, in the amount of the aggregate payments due to Techtop. These interests will be satisfied upon payment in full. Techtop may file or record these Terms and Conditions or financing statement(s), pursuant to the Uniform Commercial Code, to perfect, continue, release, assign, terminate and/or amend its security interest. Customer authorizes Techtop to file a financing statement signed only by Techtop describing the collateral as the Product provided to Customer pursuant to these Terms and Conditions and/or proceeds thereof. Customer will execute financing statements and other instruments required to protect Techtop's security interest if requested by Techtop. Techtop or its representative may enter upon Customer's premises at any reasonable time upon consent of Customer to inspect the Products until the payments due under a Sales Order or these Terms and Conditions have been paid in full. The Product

remains personal property, even if attached to realty or other property, until all amounts due to Techtop have been paid in full. Once payment in full is

made, Techtop will release the security interest. If Customer fails to make payment when due, Techtop may exercise its rights under the UCC in Georgia.

18. Jurisdiction and Venue. For all disputes or controversies that may arise in connection with this Agreement, the parties consent to the sole and exclusive jurisdiction and venue of the Superior Court of Gwinnett County, Georgia, and the United States District Court for the Northern District of Georgia, Atlanta Division.

19. Force Majeure. The term "Force Majeure" will be defined as fire or other casualty or accident; act of God; severe weather conditions; strikes or labor disputes; war or other violence; law, order, proclamation, regulation, ordinance, demand or requirement of any governmental agency; or any other act or condition whatsoever beyond the reasonable control of the parties hereto. If the performance of a Sales Agreement or these Terms and Conditions by either party or any obligation thereunder or hereunder is prevented, restricted, or interfered with by reason of a Force Majeure event, the party whose performance is so affected, upon giving prompt notice to the other party, will be excused from such performance to the extent of such Force Majeure event, provided however, that the party so affected will take all reasonable steps to avoid or remove such causes of nonperformance and will continue performance hereunder with dispatch whenever such causes are removed.

20. Miscellaneous. This Agreement will be governed by, and construed in accordance with, the laws of the State of Georgia without application of conflict of laws principles. CUSTOMER HEREBY AGREES TO WAIVE TRIAL BY JURY IN ANY LITIGATION ARISING OUT OF OR RELATED TO THIS AGREEMENT OR ANY OTHER AGREEMENT OR TRANSACTION BETWEEN THE PARTIES. The waiver or failure of either party to exercise in any respect any right provided for herein will not be deemed a waiver of any further right. No modification, waiver or amendment of this Agreement will be effective unless it is in writing and signed by an authorized signatory of Customer and Techtop. Neither party may assign or delegate any of its rights or obligations under this Agreement without the prior written consent of the other; provided, however, the sale of Techtop or the sale, assignment or other transfer of Techtop's business, will not be deemed an assignment or delegation. Any provision of this Agreement that is prohibited or unenforceable in any jurisdiction will, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such provision in any other jurisdiction. Time is of the essence of this Agreement.



Phone:

Toll Free: 1-855- TECHTOP

Local: 1-678-436-5540

Fax: 1-866-204-1498



Address:

Techtop Industries, Inc.
2815 Colonnades Court
Peachtree Corners, GA 30071
USA



Email:

General:
orders@techttopind.com