

NEMA

Model BMG0032F
MFG PN: T182T 3U2B

Model BMG0032F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0032F	3	3515	575	3	60	182T	Rigid	TEFC

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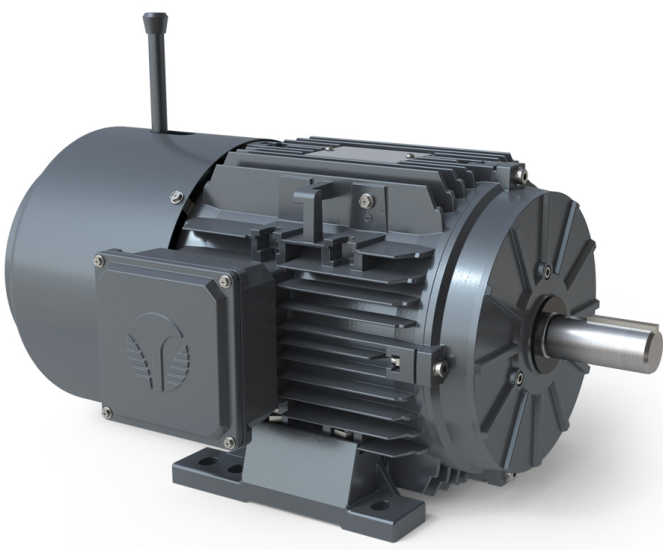
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ELECTRICAL DATA		
Rated Motor Output Power	3	HP
	-	kW
Rated Motor Speed	3515	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	2.87	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	23.92	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	86.5	% @ 60Hz
Nominal Power Factor	0.89	cosΦ @ 60Hz
Leads (Qty, Size)	3	16
Connection	Y	-
Coil Resistance	-	Ω
Start Capacitor	-	µF/V
Run Capacitor	-	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	37	°C @ 60Hz
	-	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	250	575
Brake Model	REB04-014B-250-045	
Rectifier Model	G370-RZL241-170	

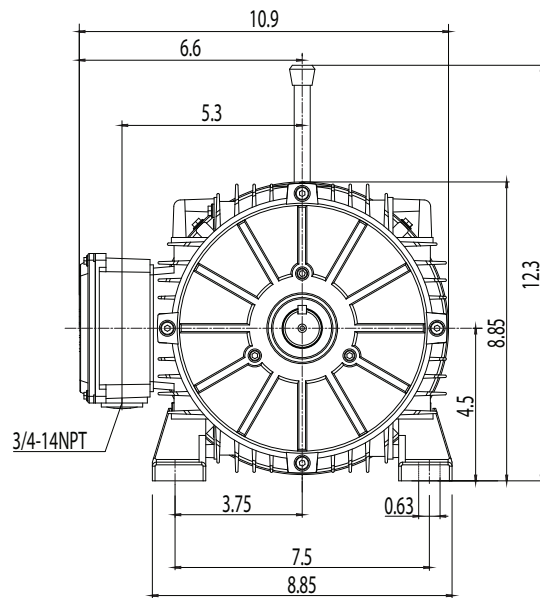
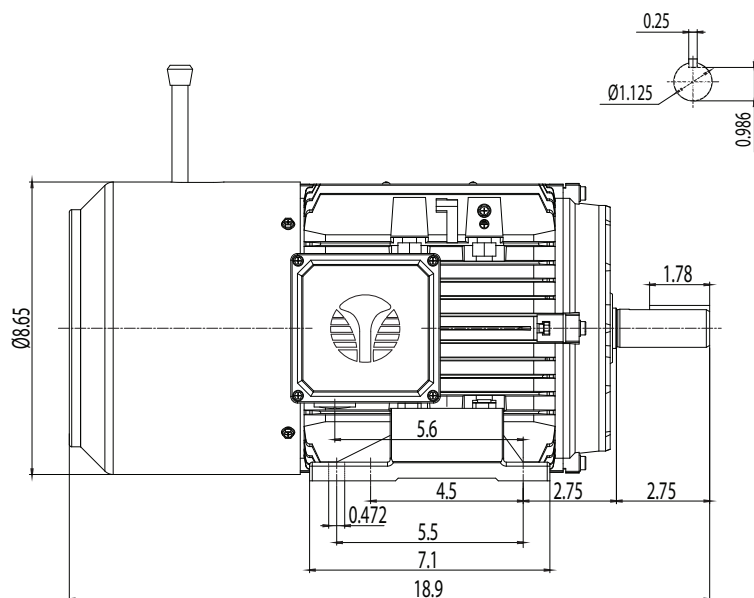
GENERAL DATA		
Frame Size	182T	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	77.9 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	A	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	YES	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6306 ZZ	
Bearing ODE Side	6206 ZZ	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	-	
Sound Pressure @ 3 FT dBA	-	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	-	
Temperature Code	-	-

BRAKE TORQUE	
Rated Torque (ft.lb)	33.2
Rated Torque (Nm)	45

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	3	3
RPM	3515	-
Voltage	575	-
Full Load Amps	2.87	-
Service Factor	1.25	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	86.5	-
Nominal Power Factor	0.89	-
Design	A	
Frame	182T	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6306 ZZ	
Opposite Drive End Bearing	6206 ZZ	
Weight (lbs)	77.9	

NAMEPLATE LAYOUT

TECHTOP INDUSTRIAL THREE PHASE MOTOR
 INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF

MODEL MFG PN
 60Hz 50Hz MFG DATE
 HP SER #
 RPM DESIGN
 VOLT FRAME
 FLA ENCL / IP 55
 SF DUTY
 KVA CODE INS CL
 NOM.EFF AMB
 EFF 75% DE
 PF ODE
 USABLE AT 208V WEIGHT lbs
 BRAKE: NM FT-LBS VOLTS: VAC VDC MADE IN CHINA

NEMA Premium
 TECHTOPCANADA.COM

CC088A
 E323353
 SP
 224653
 Energy Verified Only

VFD DUTY (S.F. 1.0)

Variable Torque
 Constant Torque

RATIO

30:1
 15:1

Hz*

2 - 60
 4 - 60

*For max speed please contact Techtop Canada

DC BRAKE DATA

Brake Torque (Nm / ft.lb)
 Brake Volts (VDC / VAC)

45
 250

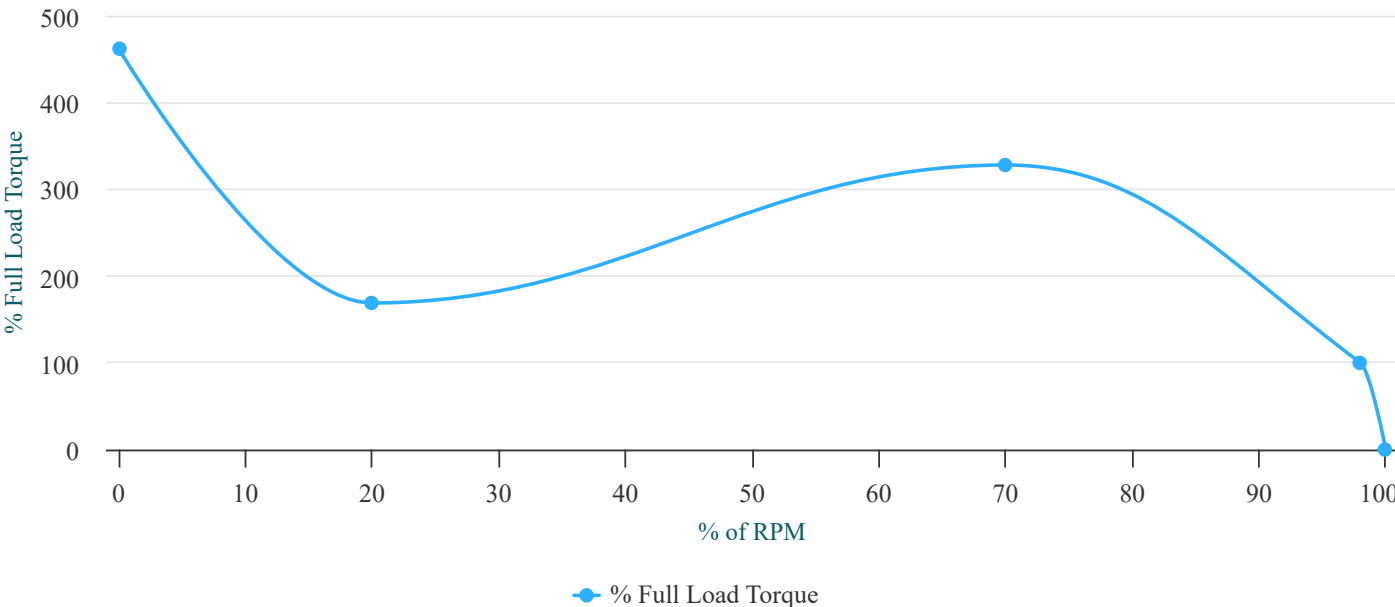
33.2
 575

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

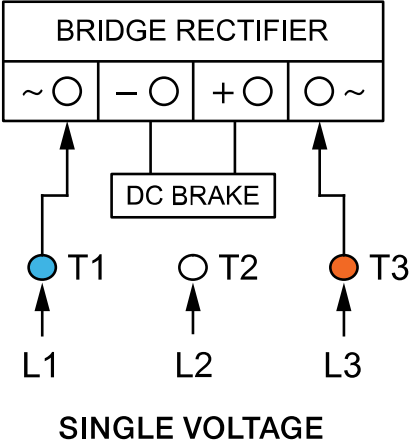
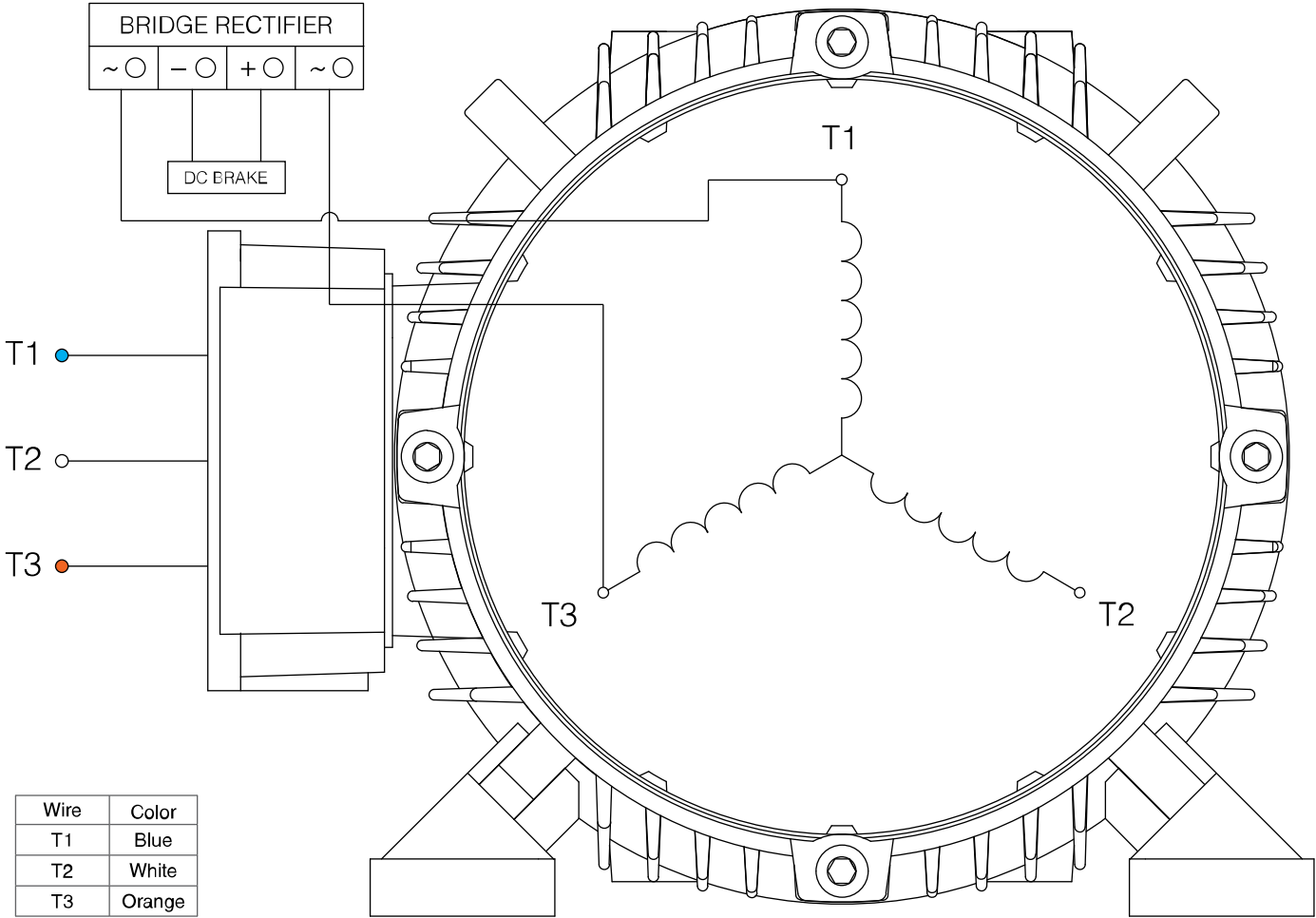
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	4.5	462
Pull-Up Torque	7.6	169
Breakdown Torque	14.7	328
Full Load Torque	20.7	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	23.92
No-Load Current (A)	1
No-Load Power Factor	0.14

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.2	1.7	2.2	2.8	3.5	3.5
Efficiency (%)	78.2	85.6	87.3	87.4	86.6	86.6
Speed (r/min)	3579	3560	3539	3510	3491	3491
Power Factor (cosΦ)	0.59	0.78	0.86	0.9	0.91	0.91
Input Power (kW)	0.7	1.29	1.89	2.52	3.18	3.18

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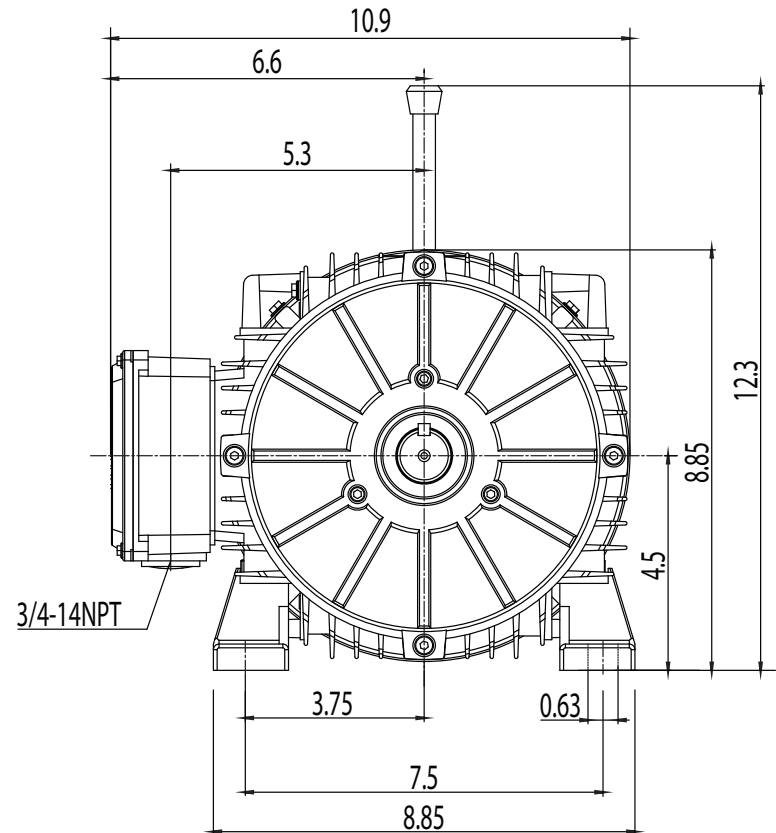
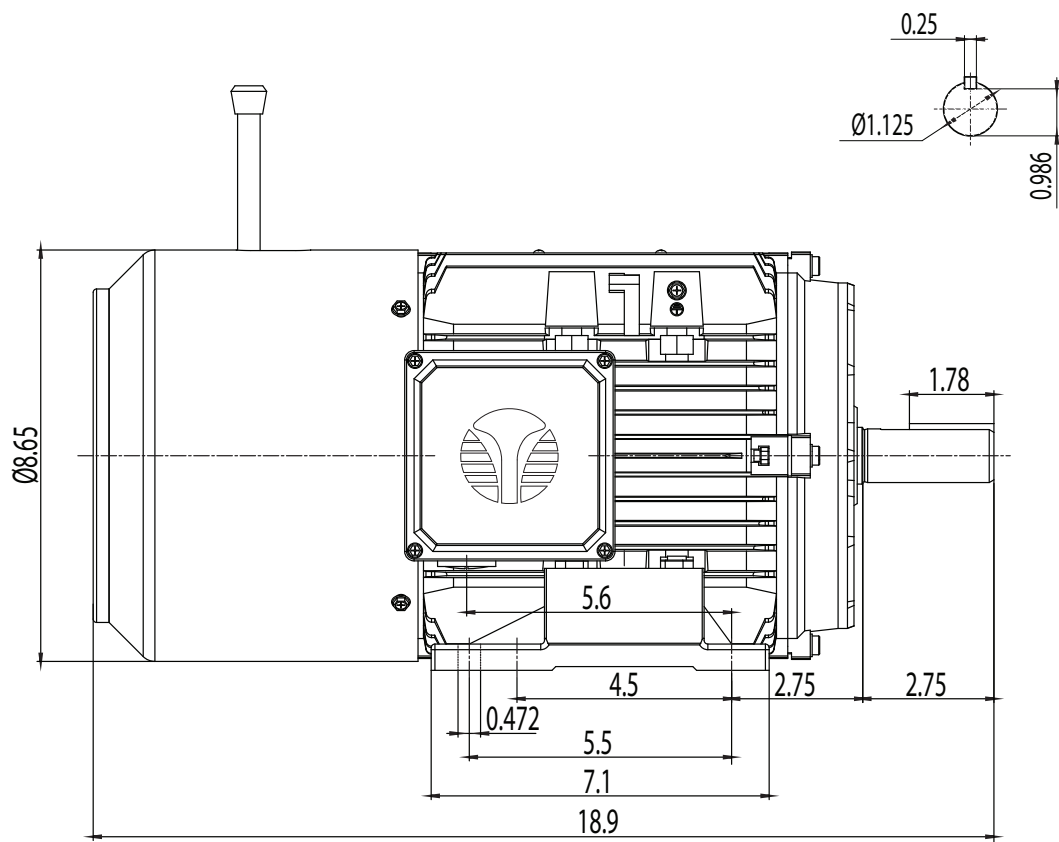
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - 5. DIAGRAMS FOR REFERENCE ONLY



DRAWING NUMBER:	NEMA-3-3-Y-BRK
CONNECTION:	Y
NUMBER OF LEADS:	3
THERMAL PROTECTION:	Optional

NEMA 3Ø Y 3-Lead Single Voltage

ISSUED DATE	07/07/25
PREMIUM T-FRAME BRAKE MOTORS	



NEMA Premium TEFC 182T

DRAWING NUMBER:	GR3-AL-TF-180T-BRK	ISSUED DATE	07/07/25
DIMENSIONS:	Inches	PREMIUM T-FRAME BRAKE MOTORS	
MOUNTING:	Rigid		
CASING MATERIAL:	Cast Aluminum		