

NEMA

Model BMG0014F-TD
MFG PN: T145T 1.5U4B

Model **BMG0014F-TD**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0014F-TD	1.5	1740	575	3	60	145TD	Rigid/D-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	1.5	HP
	-	kW
Rated Motor Speed	1740	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	1.73	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	11.12	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	0.74	cosΦ @ 60Hz
Leads (Qty, Size)	3	18
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	21.8	°C @ 60Hz
	-	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	250	575
Brake Model	REB04-010B-250-016	
Rectifier Model	G370-RZL241-170	

GENERAL DATA		
Frame Size	145TD	
Enclosure	TEFC	
Mounting	Rigid/D-Flange	
Approximate Weight (lbs.)	48.5 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	B	
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	6205 ZZ	
Bearing ODE Side	6205 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)	11.8
Rated Torque (Nm)	16

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NEMA

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	1.5	1.5
RPM	1740	-
Voltage	575	-
Full Load Amps	1.73	-
Service Factor	1.25	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	86.5	-
Nominal Power Factor	0.74	-
Design	B	
Frame	145TD	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6205 ZZ	
Opposite Drive End Bearing	6205 ZZ	
Weight (lbs)	48.5	

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	TEFC 55
SF			DUTY	
KVA CODE			INS CL	
NOM.EFF			AMB	
EFF 75%			DE	
PF			ODE	
USABLE AT 208V			WEIGHT	lbs

**NEMA Premium**
TECHTOPCANADA.COM

CE
CC0086A
E323353

224653

Energy Verified Only

BRAKE: NM FT-LBS VOLTS: VAC VDC

MADE IN CHINA

VFD DUTY (S.F. 1.0)	RATIO	Hz*
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

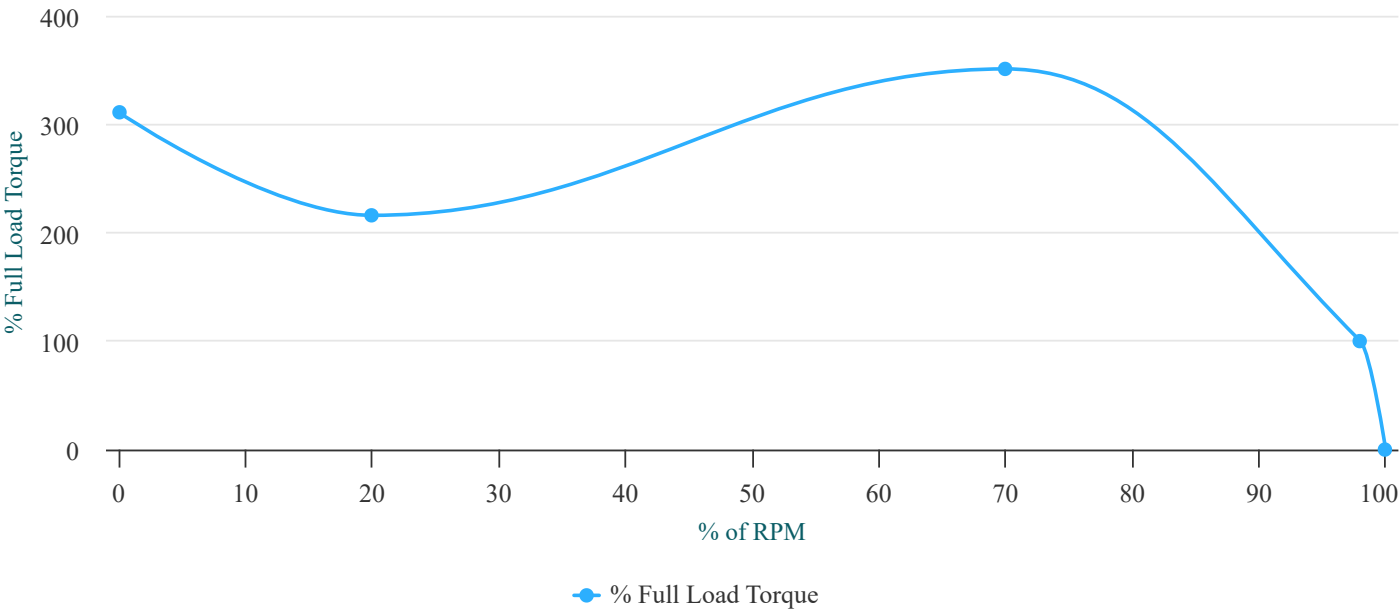
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	16	11.8
Brake Volts (VDC / VAC)	250	575

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Torque Speed (T-n) Curve



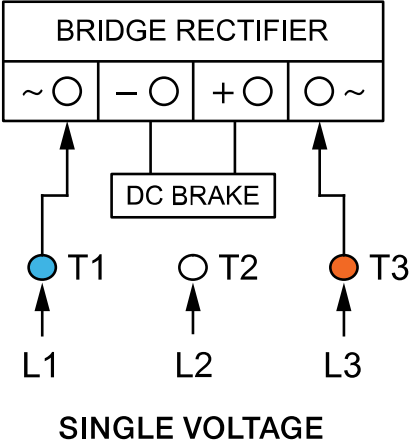
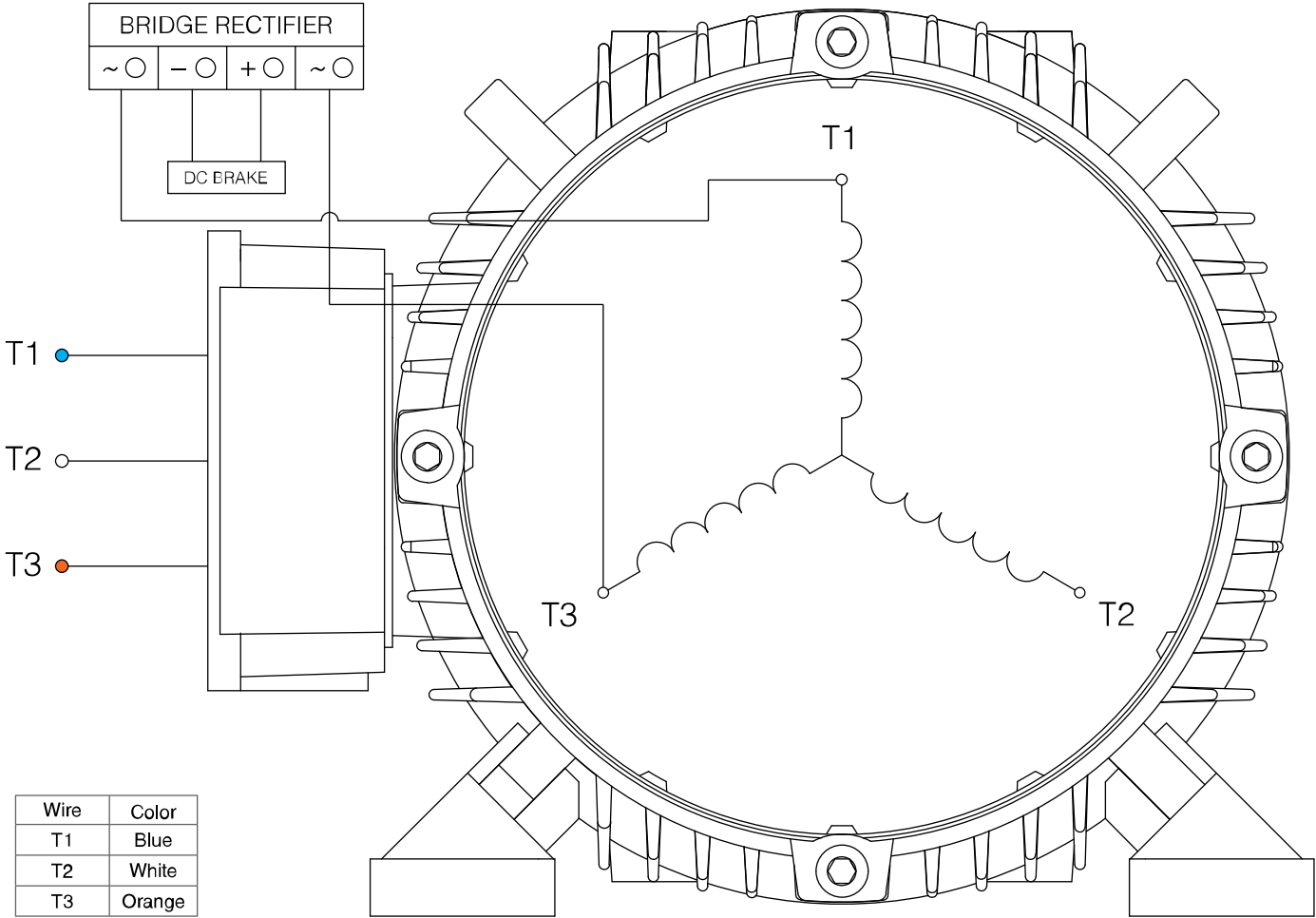
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	4.5	311	Start Configuration	DOL
Pull-Up Torque	9.8	216	Starting Current (A)	11.12
Breakdown Torque	15.9	351	No-Load Current (A)	1
Full Load Torque	14.1	100	No-Load Power Factor	0.08

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1	1.2	1.4	1.7	2	2
Efficiency (%)	76.4	84.2	86.1	86	85.1	85.1
Speed (r/min)	1787	1775	1762	1748	1732	1732
Power Factor (cosΦ)	0.36	0.56	0.68	0.76	0.8	0.8
Input Power (kW)	0.36	0.65	0.96	1.28	1.62	1.62

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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	



Model **BMG0014F-TD**
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NEMA Premium TEFC 145TD

DRAWING NUMBER:	GR3-AL-TF-140TD-BRK	ISSUED DATE	07/07/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/D-Flange	PREMIUM T-FRAME BRAKE MOTORS	
CASING MATERIAL:	Cast Aluminum		