

NEMA

Model BMG0006F-TD
MFG PN: T145T 1U6B

Model **BMG0006F-TD**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0006F-TD	1	1145	575	3	60	145TD	Rigid/D-Flange	TEFC

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techtopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techtopcanada.com

Moncton

PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techtopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techtopcanada.com

Index

Motor General Data Sheet	P 2
Nameplate Information	P 3
Technical Performance Data	P 4
Motor General Wiring Diagram	P 5
Motor General Outline Drawing	P 6

NEMA

Model BMG0006F-TD
MFG PN: T145T 1U6B

ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1145	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	1.30	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	6.5	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	H	60Hz
	-	50Hz
Nominal Efficiency	82.5	% @ 60Hz
Nominal Power Factor	0.7	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	-	°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.)	46.4 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

Questions? Call 1.888.286.1820

NEMA

Model BMG0006F-TD
MFG PN: T145T 1U6B

NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1145	-
Voltage	575	-
Full Load Amps	1.30	-
Service Factor	1.25	-
KVA Code	H	-
Full Load Amps (208V)	-	-
Nominal Efficiency	82.5	-
Nominal Power Factor	0.7	-
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)	46.4	

NAMEPLATE LAYOUT

**TECHTOP**

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

MODEL

60Hz50Hz

HP
RPM
VOLT
FLA
SF
KVA CODE
NOM.EFF
EFF 75%
PF
USABLE AT 208V

NEMA
Premium

TECHTOPCANADA.COM

BRAKE: NM FT-LBS VOLTS: VAC VDC MADE IN CHINA

MFG PN

MFG DATE

SER #

DESIGN

FRAME

ENCL / IP TEFC 55

DUTY

INS CL

AMB

DE

ODE

WEIGHT lbs









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

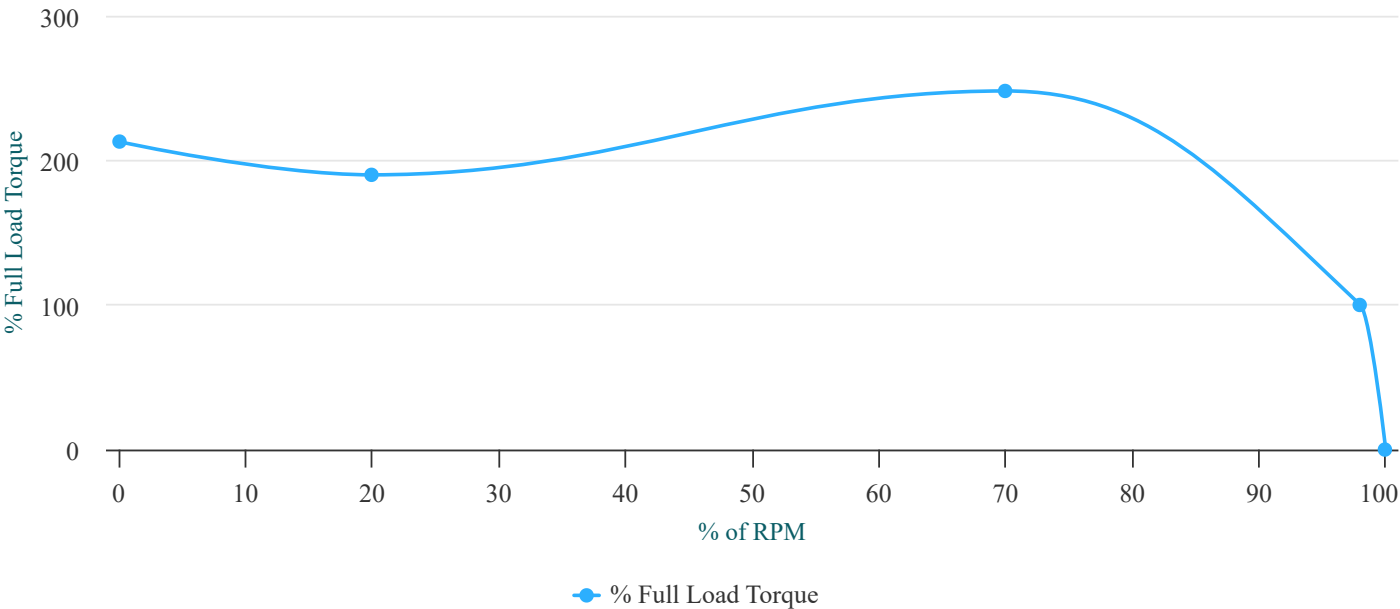
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	16	11.8
Brake Volts (VDC / VAC)	250	575

Questions? **Call 1.888.286.1820**



Model BMG0006F-TD
MFG PN: T145T 1U6B

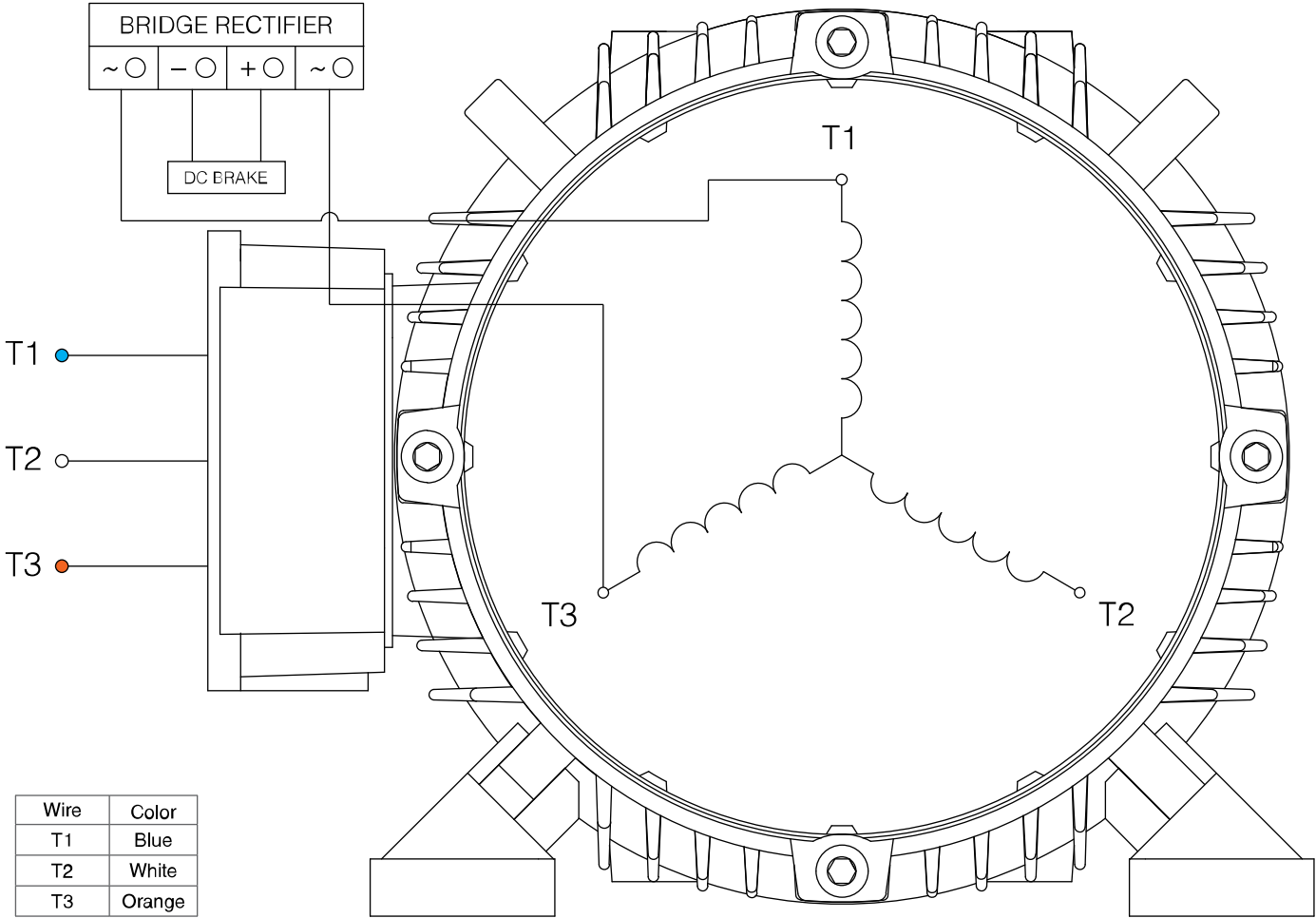
Torque Speed (T-n) Curve



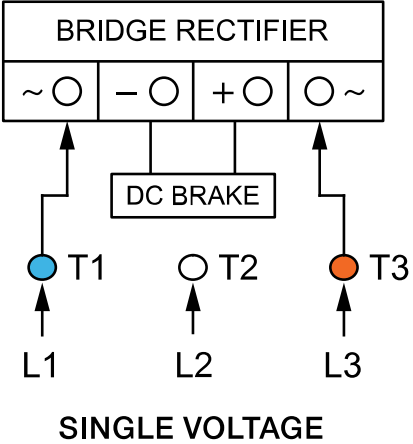
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz			TYPICAL PERFORMANCE - NOT GUARANTEED VALUES	
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	4.6	213	Start Configuration	DOL
Pull-Up Torque	8.7	190	Starting Current (A)	6.5
Breakdown Torque	11.4	248	No-Load Current (A)	0.8
Full Load Torque	9.8	100	No-Load Power Factor	0.09

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.9	1	1.1	1.3	1.6	1.6
Efficiency (%)	70.9	80.3	82.6	82.4	80.8	80.8
Speed (r/min)	1189	1179	1167	1150	1136	1136
Power Factor (cosΦ)	0.31	0.49	0.62	0.7	0.75	0.75
Input Power (kW)	0.26	0.47	0.68	0.91	1.16	1.16

Questions? Call 1.888.286.1820



Wire	Color
T1	Blue
T2	White
T3	Orange



- 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	04/07/25
PREMIUM T-FRAME BRAKE MOTORS	



Model **BMG0006F-TD**
MFG PN: T145T 1U6B



NEMA Premium TEFC 145TD

DRAWING NUMBER:	GR3-AL-TF-140TD-BRK	ISSUED DATE	04/07/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/D-Flange	PREMIUM T-FRAME BRAKE MOTORS	
CASING MATERIAL:	Cast Aluminum		