

NEMA

Model BMG0052D-TC
MFG PN: T184T 5U2B

Model BMG0052D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0052D-TC	5	3510	230/460	3	60	184TC	Rigid/C-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

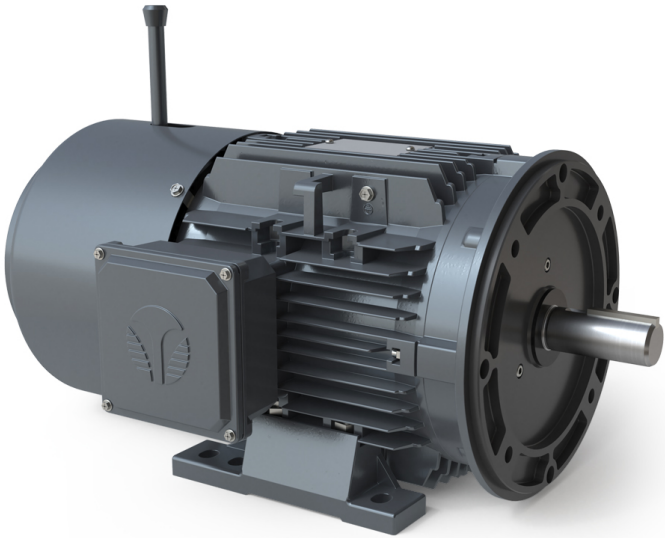
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

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 BMG0052D-TC
MFG PN: T184T 5U2B

ELECTRICAL DATA		
Rated Motor Output Power	5	HP
	-	kW
Rated Motor Speed	3510	r/min 60Hz
	2900	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	11.5/5.77	A (I _n) @ 60Hz
	13.5/6.75	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	59	A (I _n) @ 60Hz
FI Current @ 208V	12.7	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	J	50Hz
Nominal Efficiency	88.5	% @ 60Hz
Nominal Power Factor	0.91	cosΦ @ 60Hz
Leads (Qty, Size)	9	16
Connection	YY/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	45	°C @ 60Hz
	45	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	205	230
Brake Model	REB04-014B-205-045	
Rectifier Model	RZL141-170H	

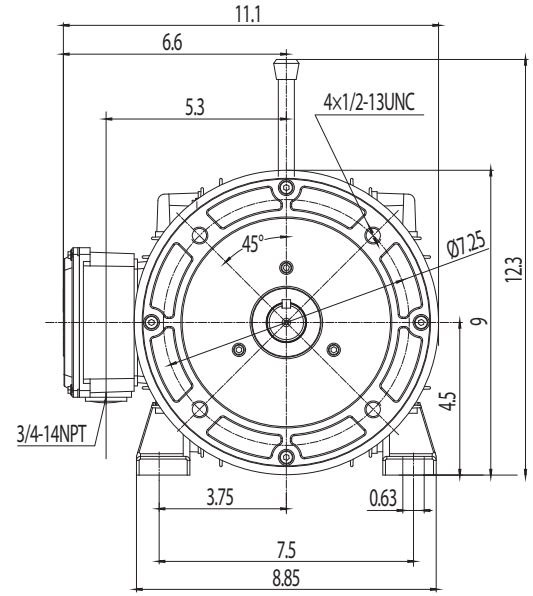
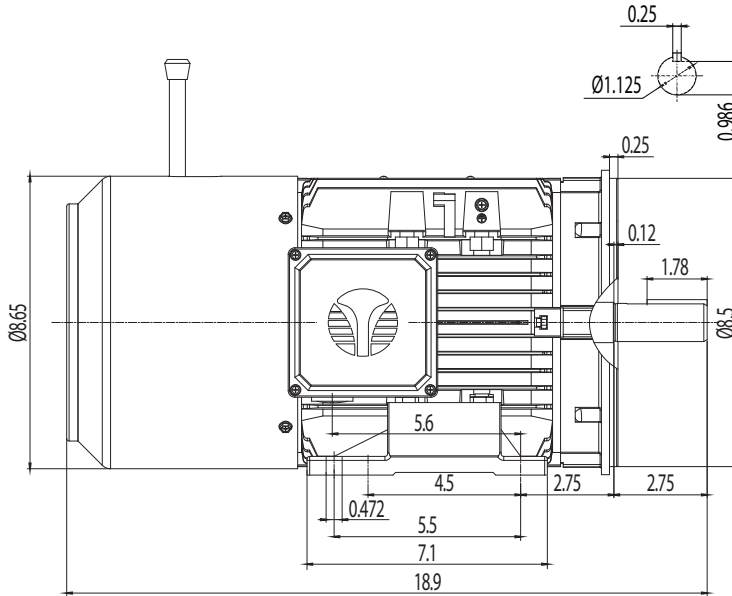
GENERAL DATA		
Frame Size	184TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	62 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	A	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
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

Questions? Call 1.888.286.1820

NEMA

Model BMG0052D-TC
MFG PN: T184T 5U2B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	5	5
RPM	3510	2900
Voltage	230/460	190/380
Full Load Amps	11.5/5.77	13.5/6.75
Service Factor	1.25	1
KVA Code	L	J
Full Load Amps (208V)	12.7	-
Nominal Efficiency	88.5	87.1
Nominal Power Factor	0.91	-
Design	A	
Frame	184TC	
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)	62	

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		CC088A	
TECHTOPCANADA.COM		E323353	
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

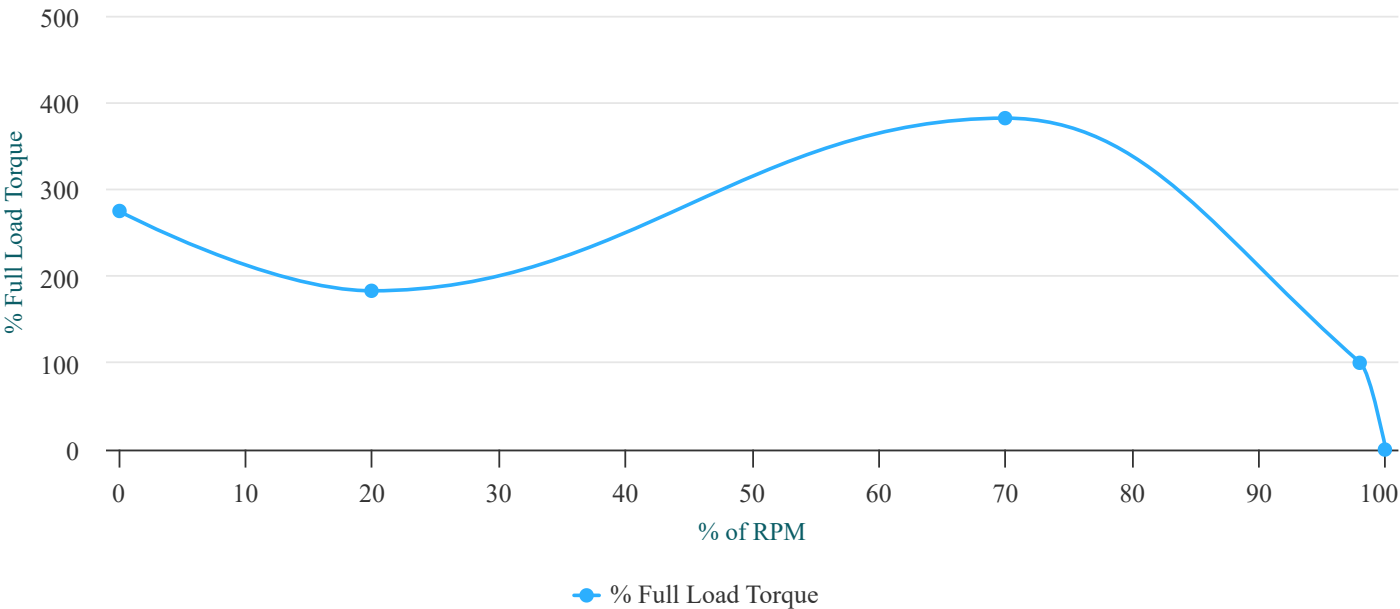
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	45	33.2
Brake Volts (VDC / VAC)	205	230

Questions? Call 1.888.286.1820



Model BMG0052D-TC
MFG PN: T184T 5U2B

Torque Speed (T-n) Curve



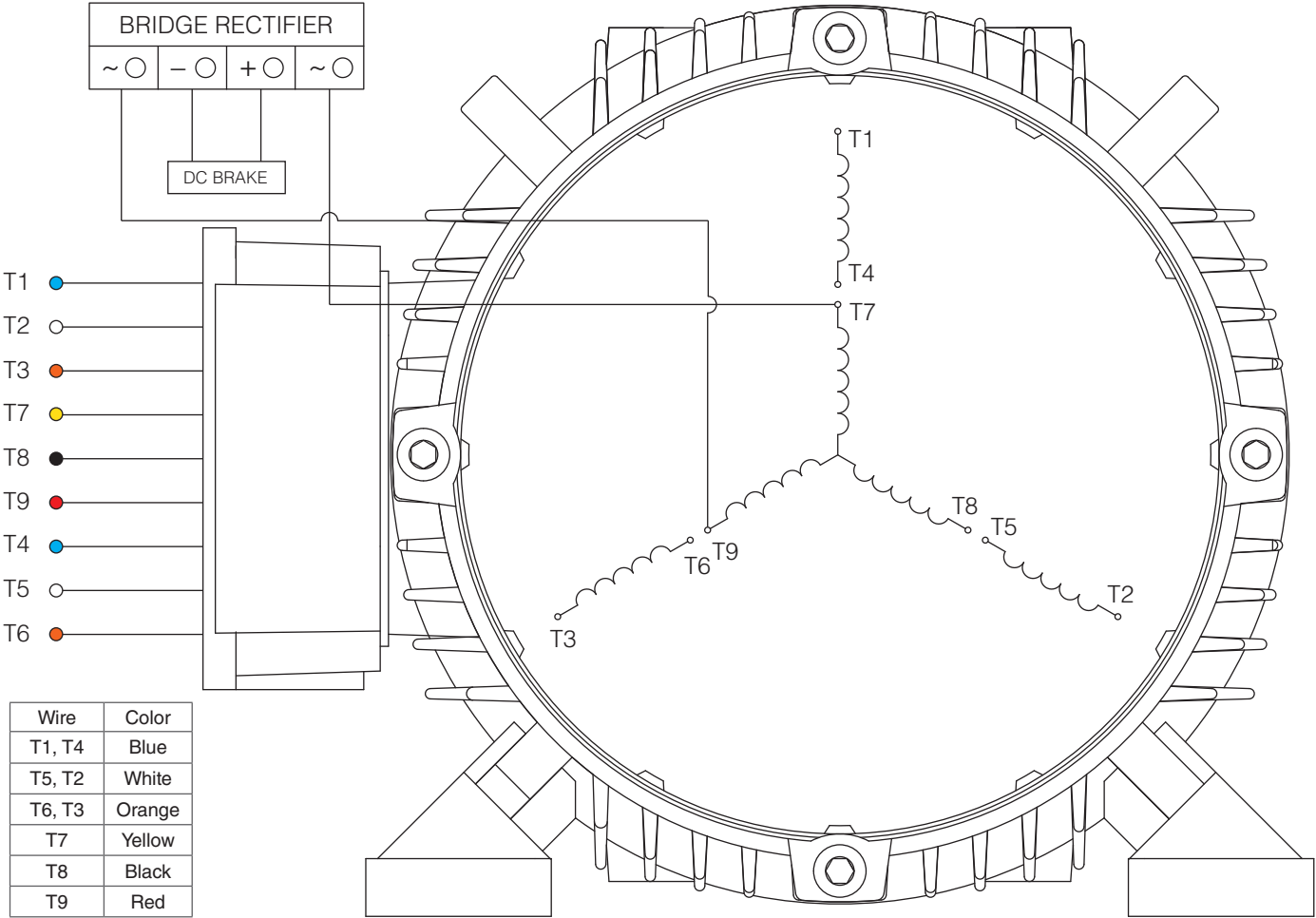
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	7.5	275	Start Configuration	DOL
Pull-Up Torque	13.7	183	Starting Current (A)	59
Breakdown Torque	28.6	382	No-Load Current (A)	2
Full Load Torque	20.6	100	No-Load Power Factor	0.11

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	2.4	3.4	4.5	5.8	7.1	7.1
Efficiency (%)	82.4	88.3	89.5	89.3	88.5	88.5
Speed (r/min)	3582	3565	3547	3527	3506	3506
Power Factor (cosΦ)	0.58	0.79	0.87	0.9	0.92	0.92
Input Power (kW)	1.12	2.1	3.1	4.14	5.23	5.23

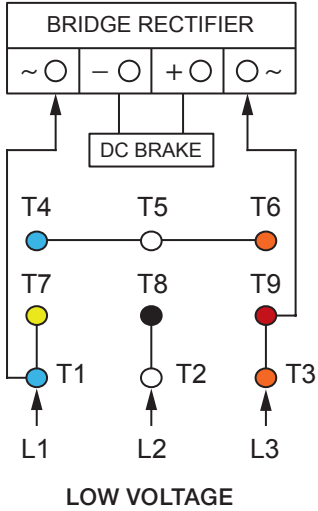
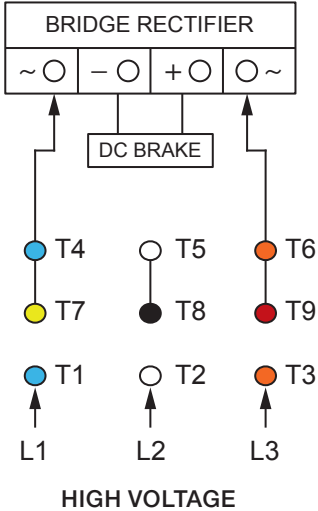
Questions? Call 1.888.286.1820



- 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-3-9-YY-Y-BRK
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	Optional



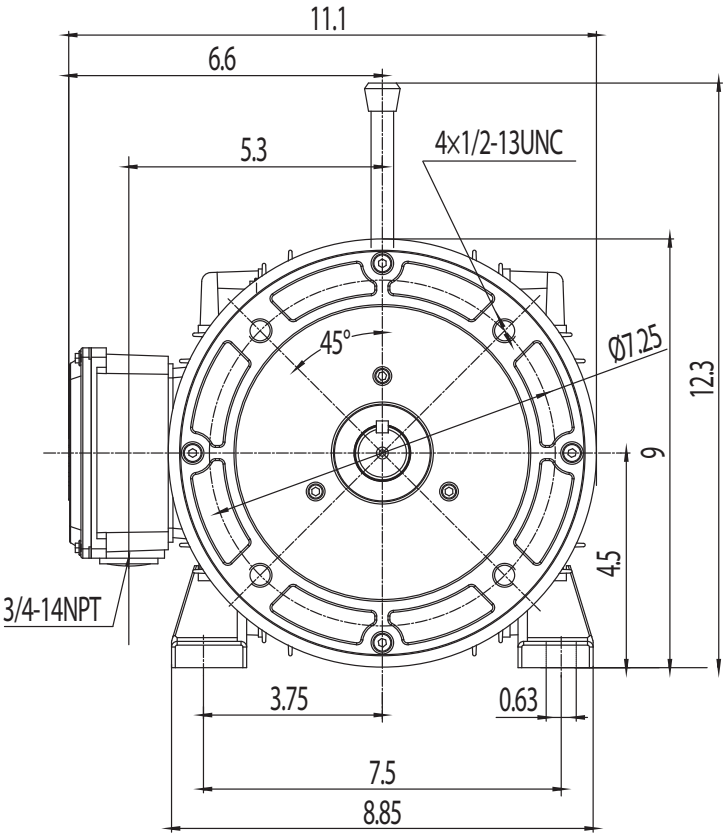
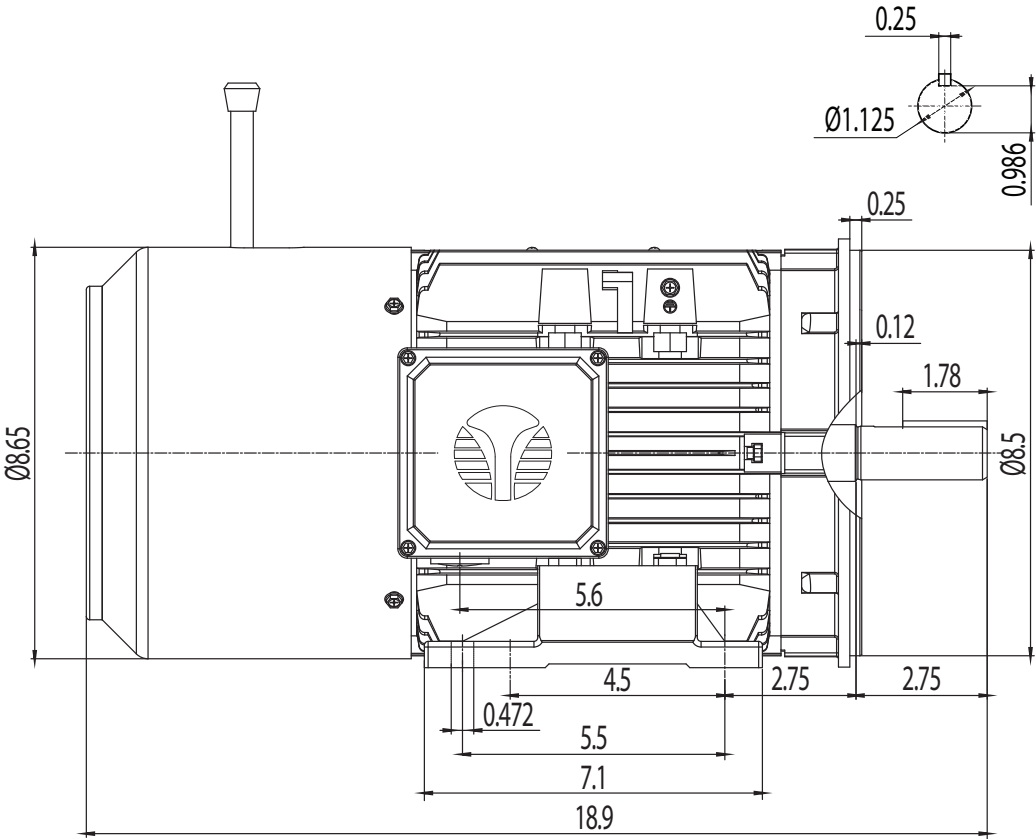
NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE 11/07/25

PREMIUM T-FRAME BRAKE MOTORS



Model **BMG0052D-TC**
MFG PN: T184T 5U2B



NEMA Premium TEFC 184TC

DRAWING NUMBER:	GR3-AL-TF-180TC-BRK	ISSUED DATE	11/07/25
DIMENSIONS:	Inches	PREMIUM T-FRAME BRAKE MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		