

NEMA

Model BMG0102D-TC
MFG PN: T215T 10U2B

Model BMG0102D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0102D-TC	10	3520	230/460	3	60	215TC	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

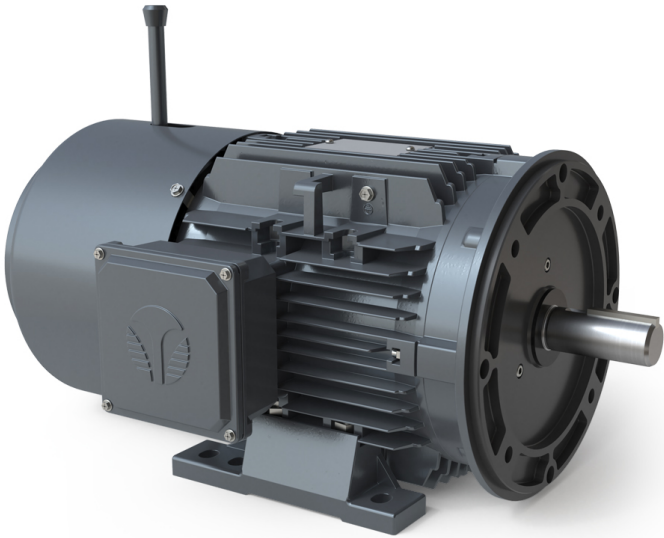
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

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



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ELECTRICAL DATA		
Rated Motor Output Power	10	HP
	-	kW
Rated Motor Speed	3520	r/min 60Hz
	2910	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	22.6/11.3	A (I _n) @ 60Hz
	26.6/13.3	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	106.37	A (I _n) @ 60Hz
FI Current @ 208V	25.8	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	H	50Hz
Nominal Efficiency	90.2	% @ 60Hz
Nominal Power Factor	0.92	cosΦ @ 60Hz
Leads (Qty, Size)	9	14
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	42.6	°C @ 60Hz
	45.3	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	205	230
Brake Model	REB04-016B-205-060	
Rectifier Model	RZL141-170H	

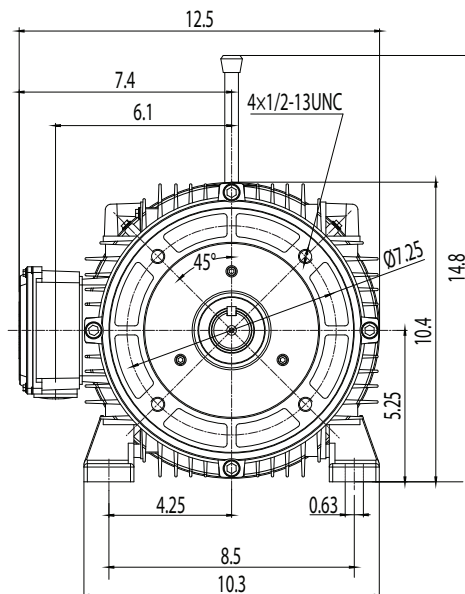
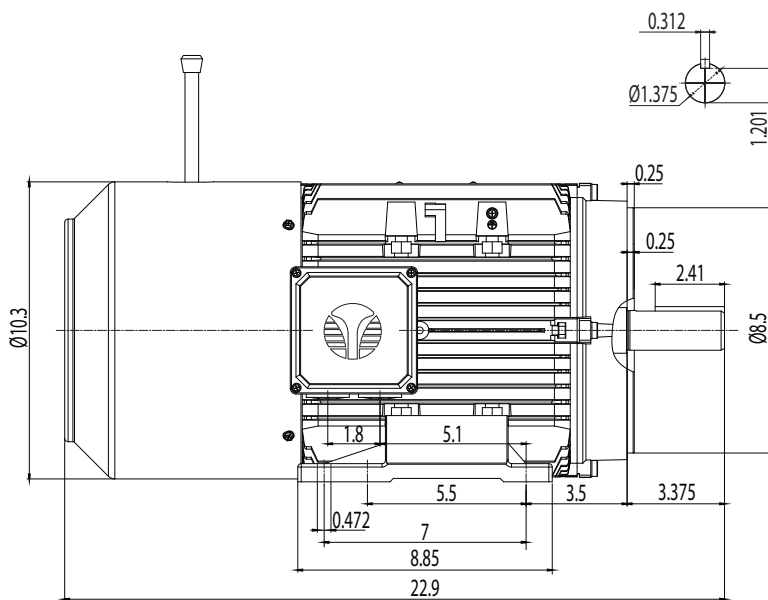
GENERAL DATA		
Frame Size	215TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	154.3 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	A	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	YES	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6308 ZZ	
Bearing ODE Side	6208 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)	44.3
Rated Torque (Nm)	60

Questions? Call 1.888.286.1820

NEMA

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	10	10
RPM	3520	2910
Voltage	230/460	190/380
Full Load Amps	22.6/11.3	26.6/13.3
Service Factor	1.25	1
KVA Code	L	H
Full Load Amps (208V)	25.8	-
Nominal Efficiency	90.2	89.5
Nominal Power Factor	0.92	-
Design	A	
Frame	215TC	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6308 ZZ	
Opposite Drive End Bearing	6208 ZZ	
Weight (lbs)	154.3	

NAMEPLATE LAYOUT

TECHTOP		INDUSTRIAL THREE PHASE MOTOR	
		INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL		MFG PN	
60Hz		MFG DATE	
50Hz		SER #	
HP		DESIGN	
RPM		FRAME	
VOLT		ENCL / IP	TEFC 55
FLA		DUTY	
SF		INS CL	
KVA CODE		AMB	
NOM.EFF		DE	
EFF 75%		ODE	
PF		WEIGHT	lbs
USABLE AT 208V			
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

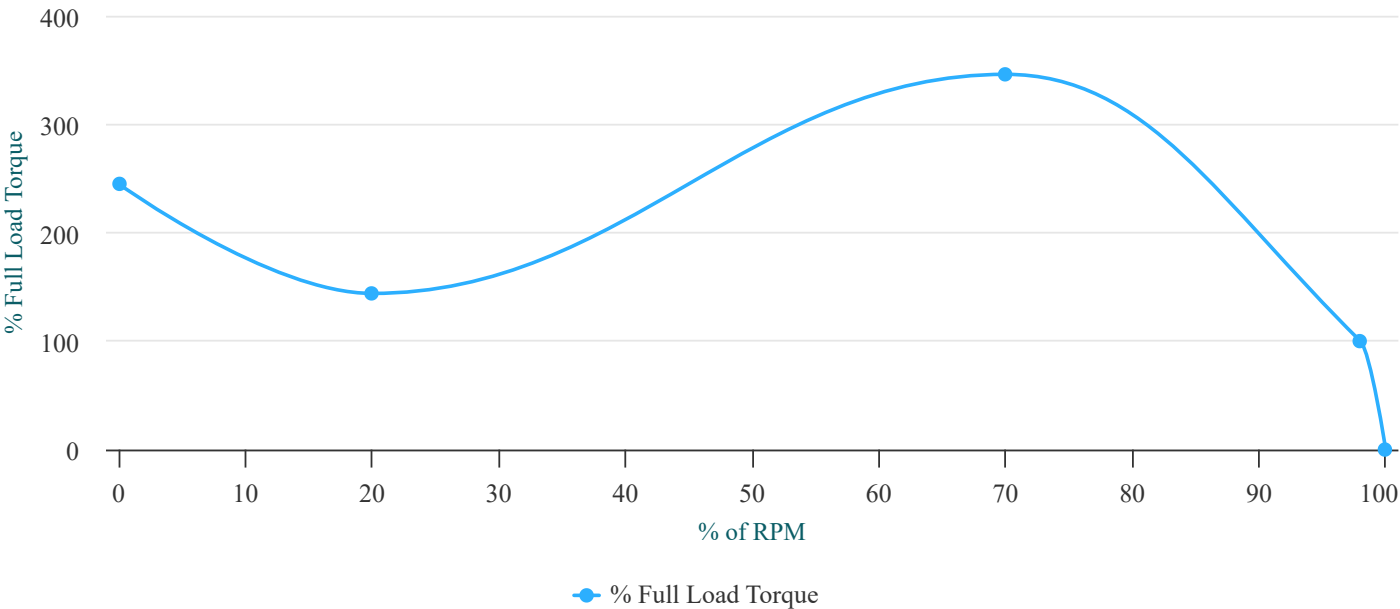
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	60	44.3
Brake Volts (VDC / VAC)	205	230

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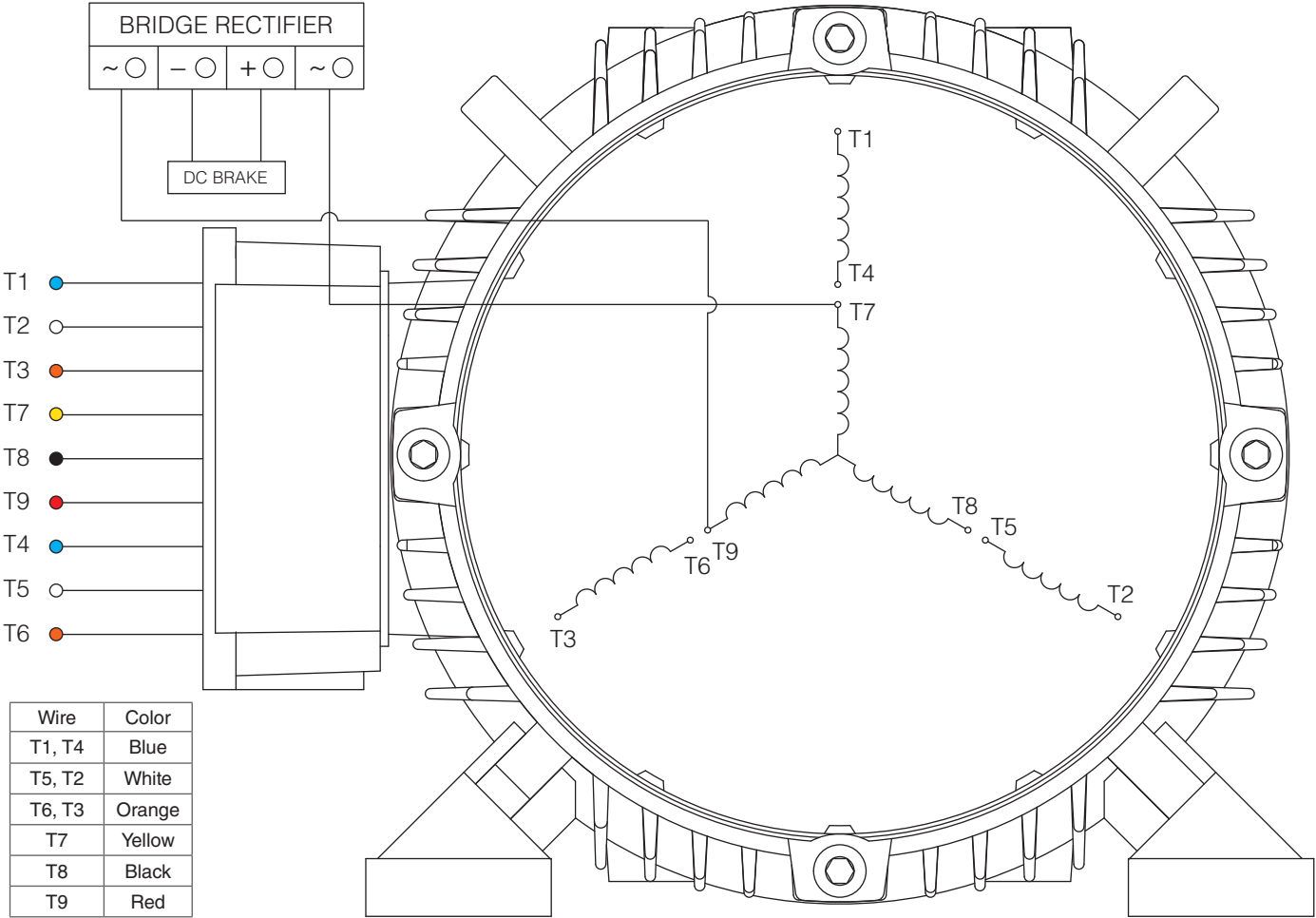
Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz			TYPICAL PERFORMANCE - NOT GUARANTEED VALUES	
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	14.9	245	Start Configuration	DOL
Pull-Up Torque	21.5	144	Starting Current (A)	106.37
Breakdown Torque	51.6	346	No-Load Current (A)	3
Full Load Torque	36.6	100	No-Load Power Factor	0.12

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	4	6.1	8.6	11.2	14.1	14.1
Efficiency (%)	85.8	90.5	91.4	91.2	90.4	90.4
Speed (r/min)	3577	3564	3549	3530	3508	3508
Power Factor (cosΦ)	0.69	0.85	0.9	0.92	0.93	0.93
Input Power (kW)	2.19	4.14	6.15	8.23	10.38	10.38

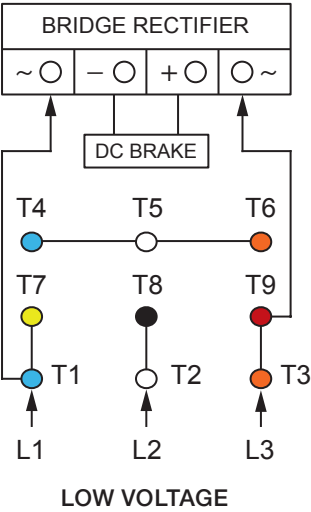
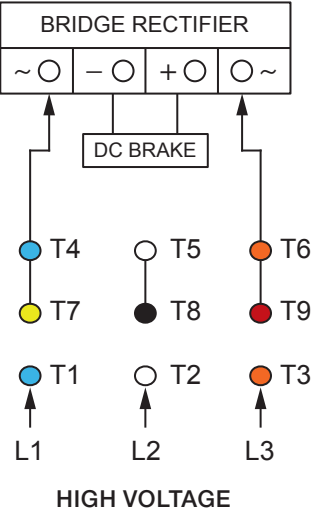
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- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT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



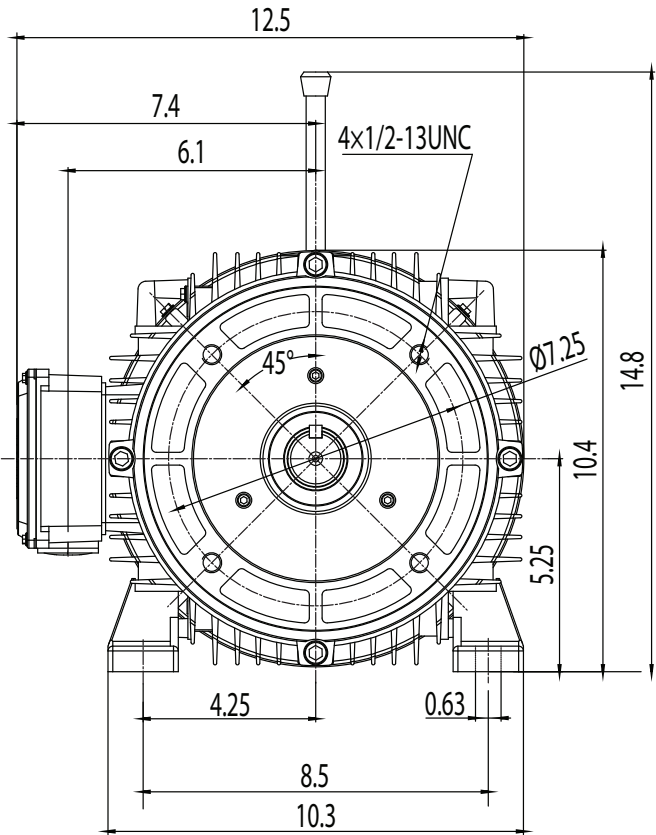
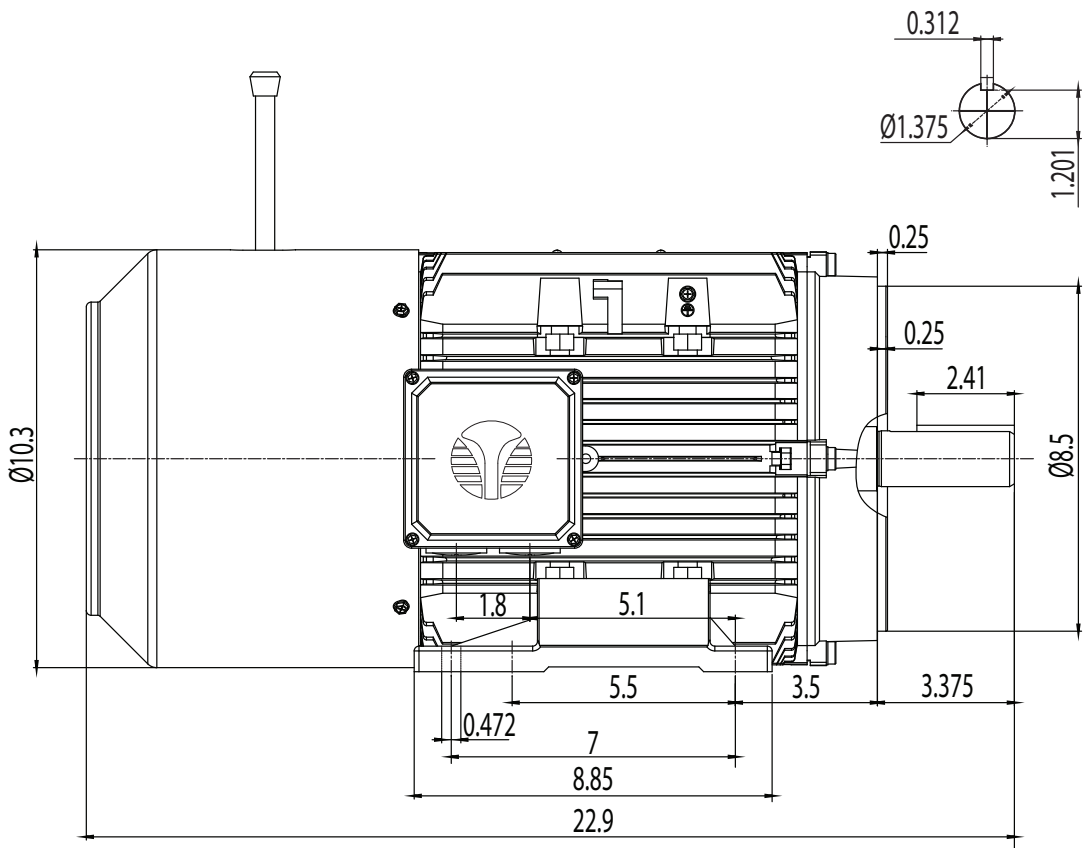
DRAWING NUMBER:	NEMA-3-9-YY-Y-BRK
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	Optional



NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE 11/07/25

PREMIUM T-FRAME BRAKE MOTORS



NEMA Premium TEFC 215TC

DRAWING NUMBER:	GR3-AL-TF-210TC-BRK	ISSUED DATE	11/07/25
DIMENSIONS:	Inches	PREMIUM T-FRAME BRAKE MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		