

NEMA

Model BMG0014D-TC
MFG PN: T145T 1.5U4B

Model BMG0014D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0014D-TC	1.5	1740	230/460	3	60	145TC	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	1.5	HP
	-	kW
Rated Motor Speed	1740	r/min 60Hz
	1430	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	4.36/2.18	A (I _n) @ 60Hz
	5.06/2.53	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	13.9	A (I _n) @ 60Hz
FI Current @ 208V	4.48	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	H	50Hz
Nominal Efficiency	86.5	% @ 60Hz
Nominal Power Factor	0.74	cosΦ @ 60Hz
Leads (Qty, Size)	9	18
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	21.8	°C @ 60Hz
	21.8	°C @ 50Hz

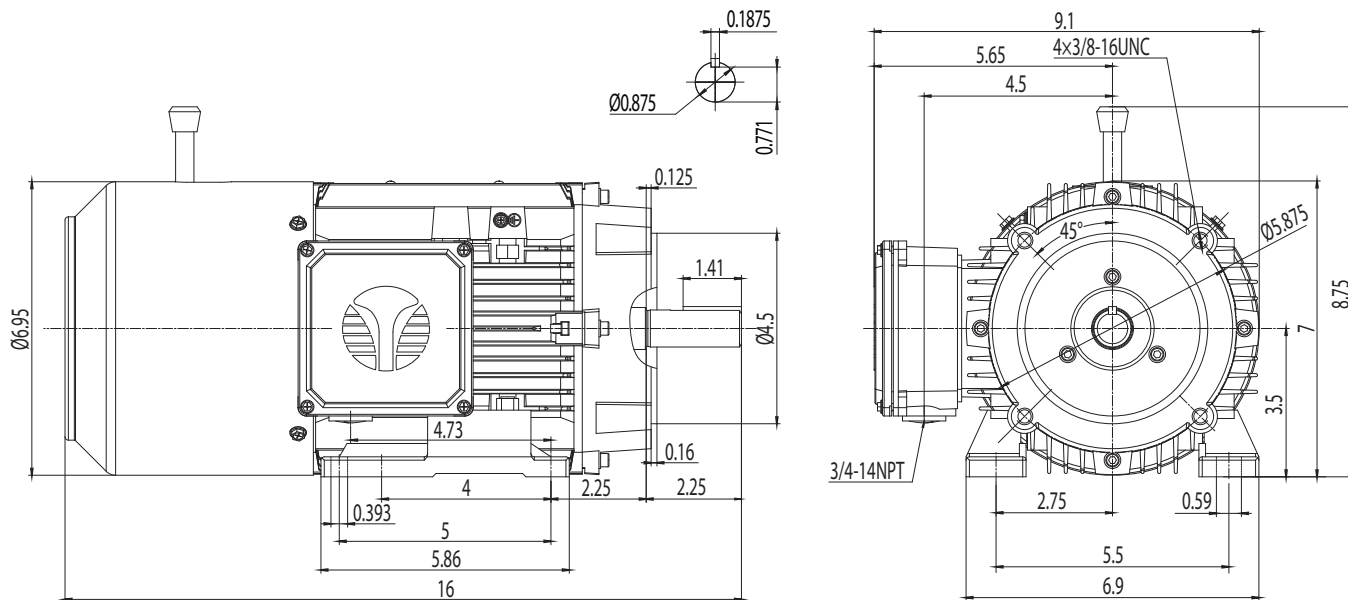
BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	205	230
Brake Model	REB04-010B-205-016	
Rectifier Model	RZL141-170H	

GENERAL DATA		
Frame Size	145TC	
Enclosure	TEFC	
Mounting	Rigid/C-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

Questions? Call 1.888.286.1820

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	1.5	1.5
RPM	1740	1430
Voltage	230/460	190/380
Full Load Amps	4.36/2.18	5.06/2.53
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	4.48	-
Nominal Efficiency	86.5	84.7
Nominal Power Factor	0.74	-
Design	B	
Frame	145TC	
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

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 Techtap Canada

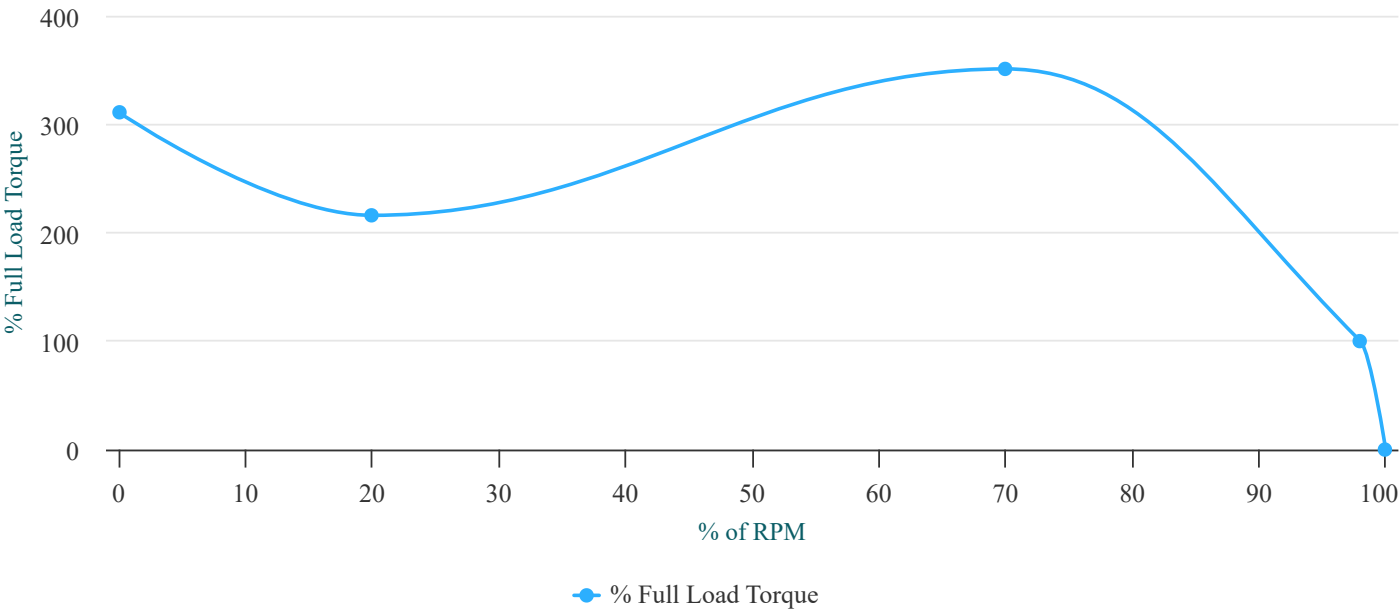
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	16	11.8
Brake Volts (VDC / VAC)	205	230

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

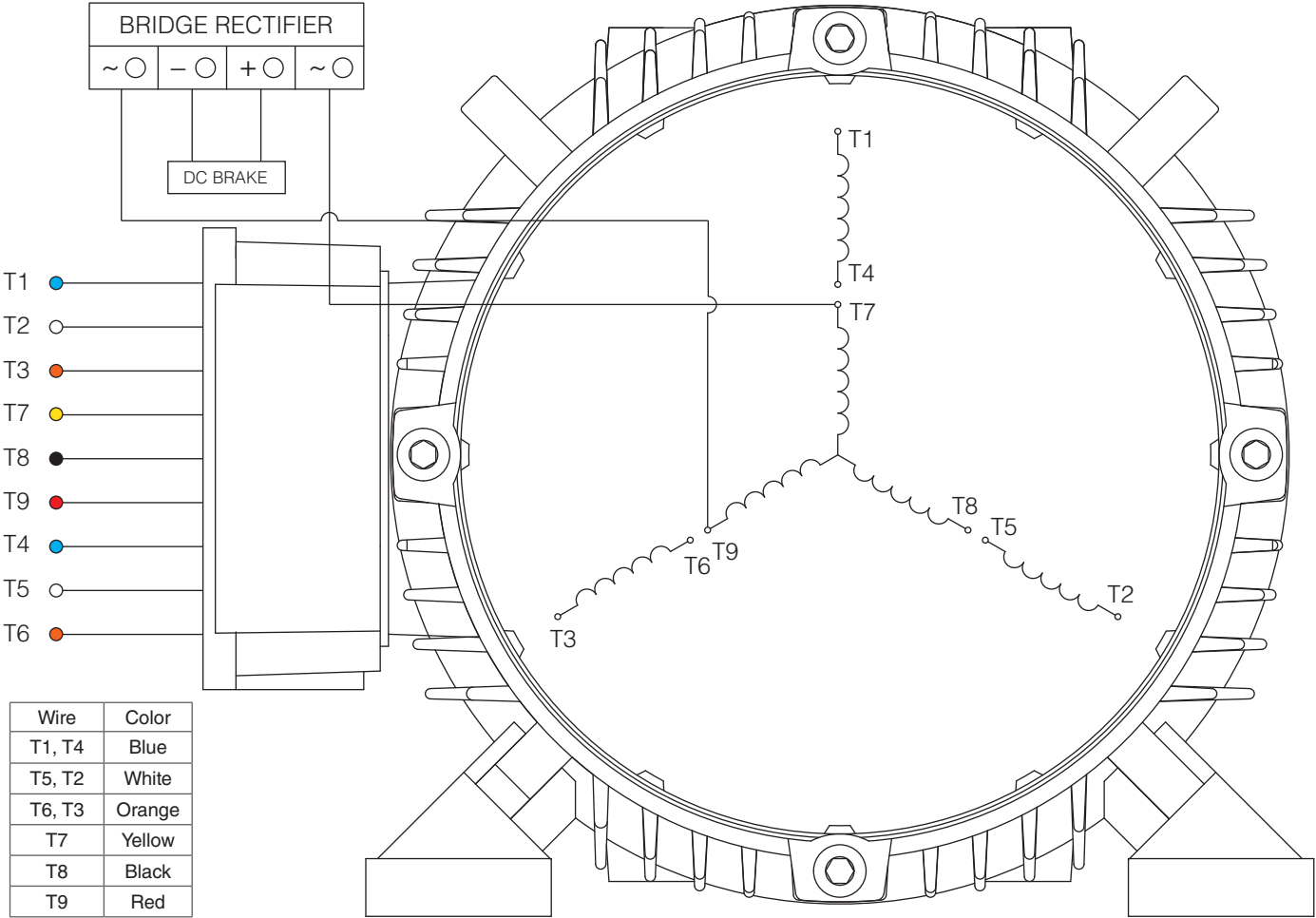
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	4.5	311
Pull-Up Torque	9.8	216
Breakdown Torque	15.9	351
Full Load Torque	14.1	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	13.9
No-Load Current (A)	1.2
No-Load Power Factor	0.08

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.3	1.5	1.8	2.1	2.5	2.5
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

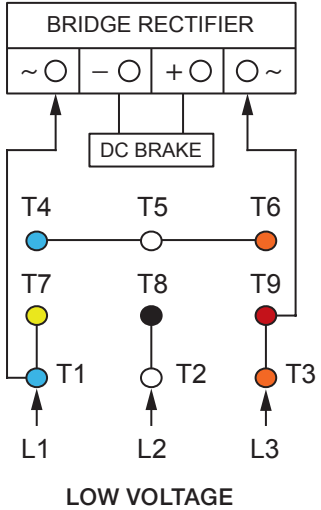
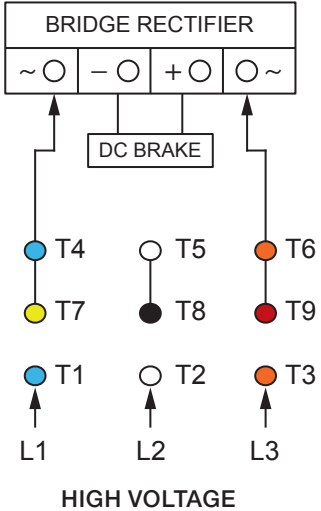
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- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH "*" EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT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



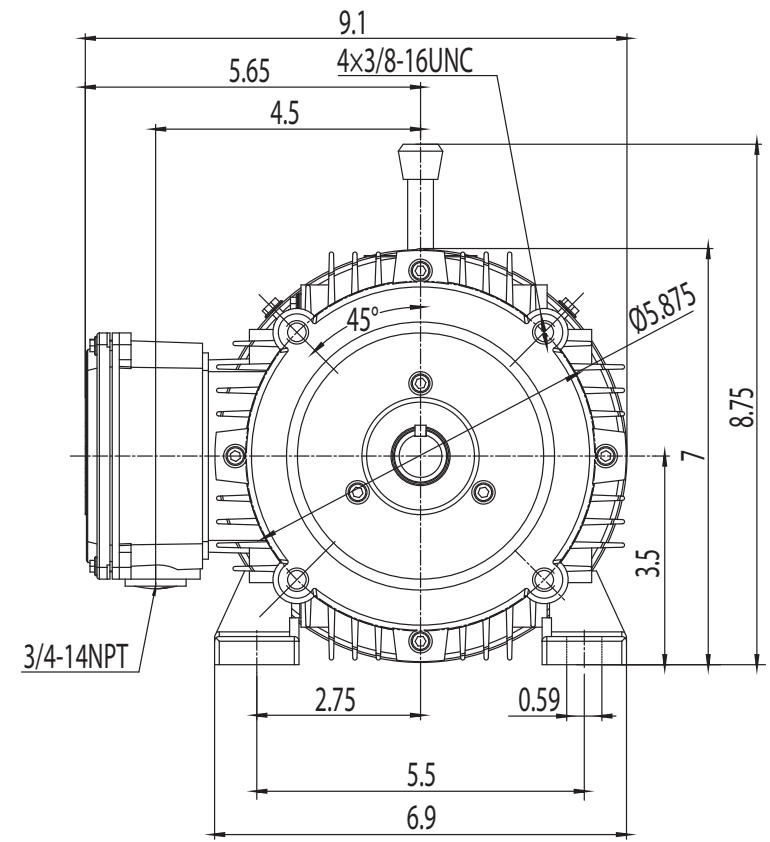
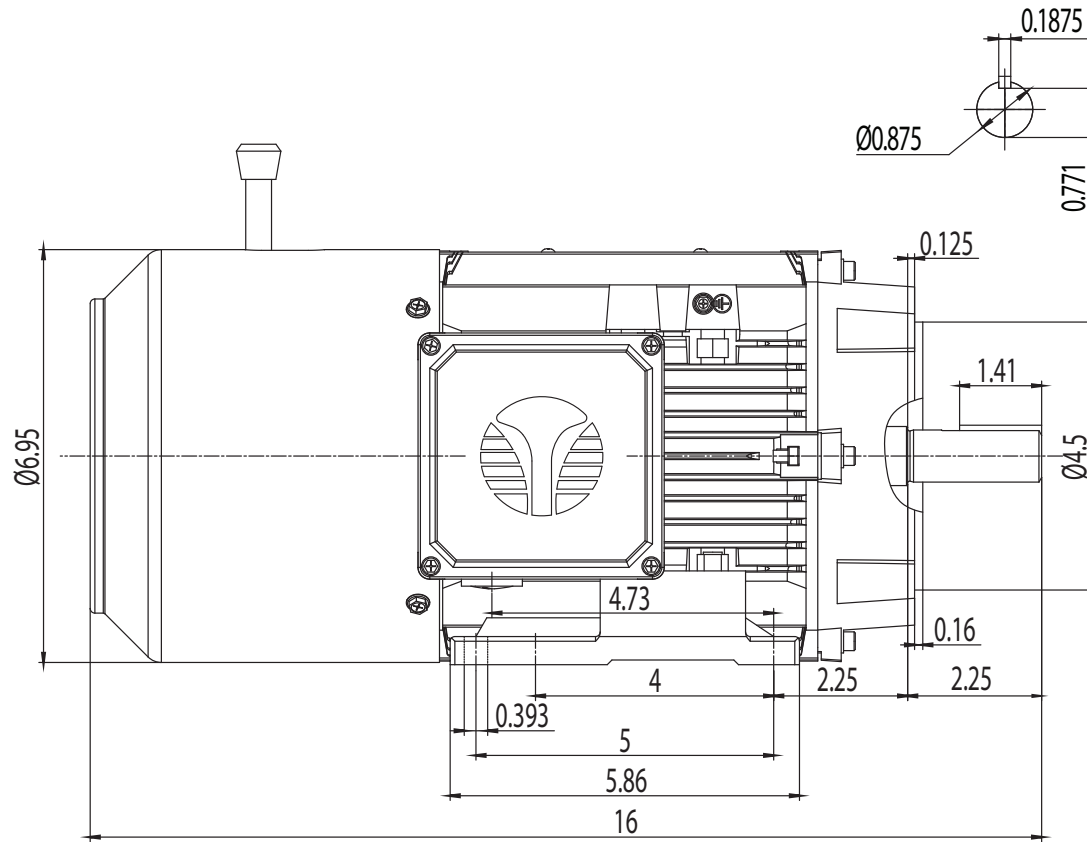
DRAWING NUMBER:	NEMA-3-9-YY-Y-BRK
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	Optional



NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE 07/07/25

PREMIUM T-FRAME BRAKE MOTORS



NEMA Premium TEFC 145TC

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