

NEMA

Model BMG0004F
MFG PN: T143T 1U4B

Model BMG0004F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMG0004F	1	1730	575	3	60	143T	Rigid	TEFC

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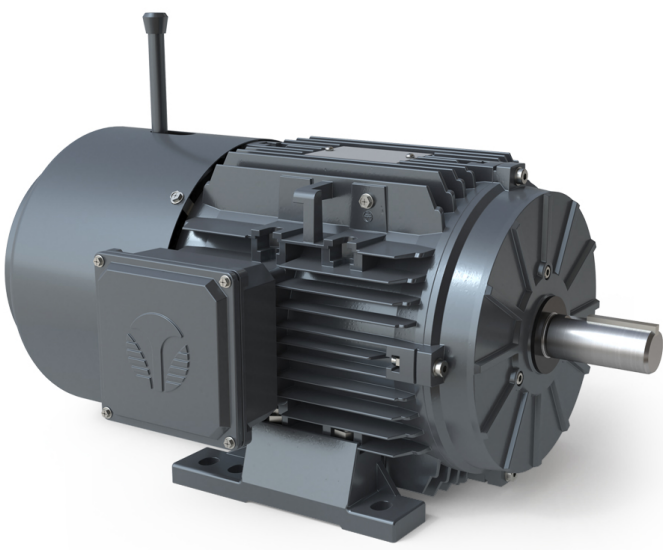
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ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1730	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	1.19	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	7.63	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	85.5	% @ 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	-	°C @ 60Hz
	-	°C @ 50Hz

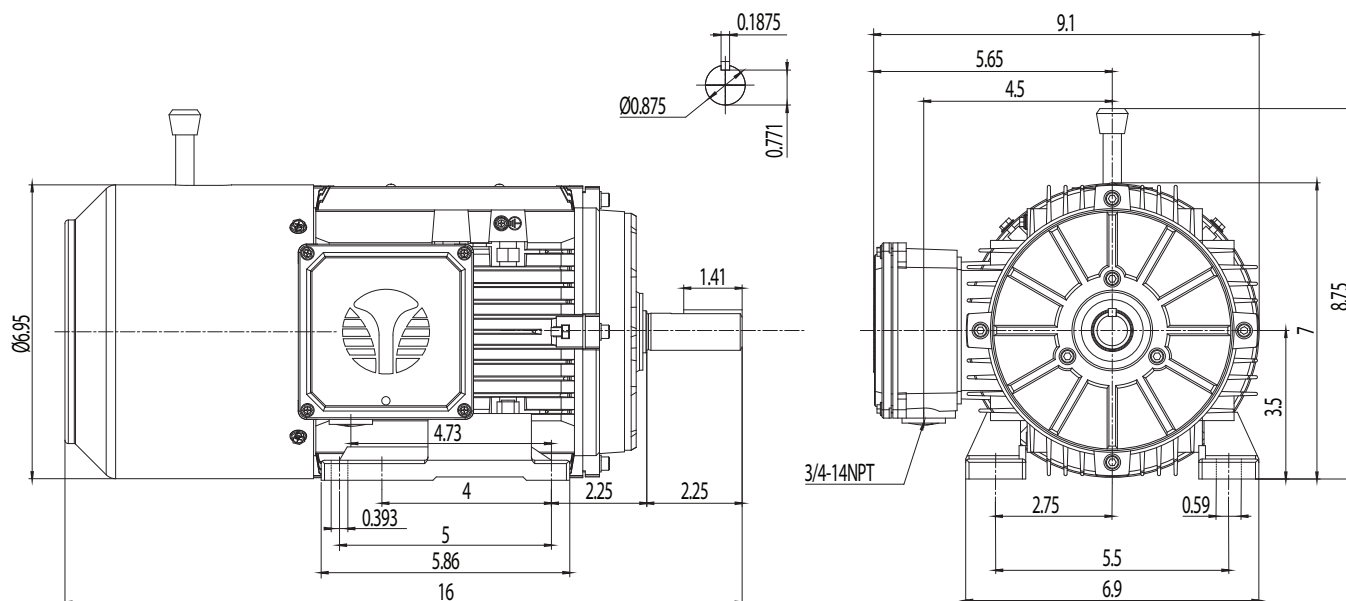
BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	250	575
Brake Model	REB04-010B-250-016	
Rectifier Model	G370-RZL241-170	

GENERAL DATA		
Frame Size	143T	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	42.8 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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NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1730	-
Voltage	575	-
Full Load Amps	1.19	-
Service Factor	1.25	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	85.5	-
Nominal Power Factor	0.74	-
Design	B	
Frame	143T	
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)	42.8	



TECHTOP

INDUSTRIAL THREE PHASE MOTOR

INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF

MODEL			MFG PN		
	60Hz	50Hz			
HP			MFG DATE		
RPM			SER #		
VOLT			DESIGN		
FLA			FRAME		
SF			ENCL / IP	TEFC	55
KVA CODE			DUTY		
NOM.EFF			INS CL		
EFF 75%			AMB		
PF			DE		
USABLE AT 208V			ODE		
	A		WEIGHT	lbs	



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CO096A
UL
E32353



UL
E32353



UL
E32353

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

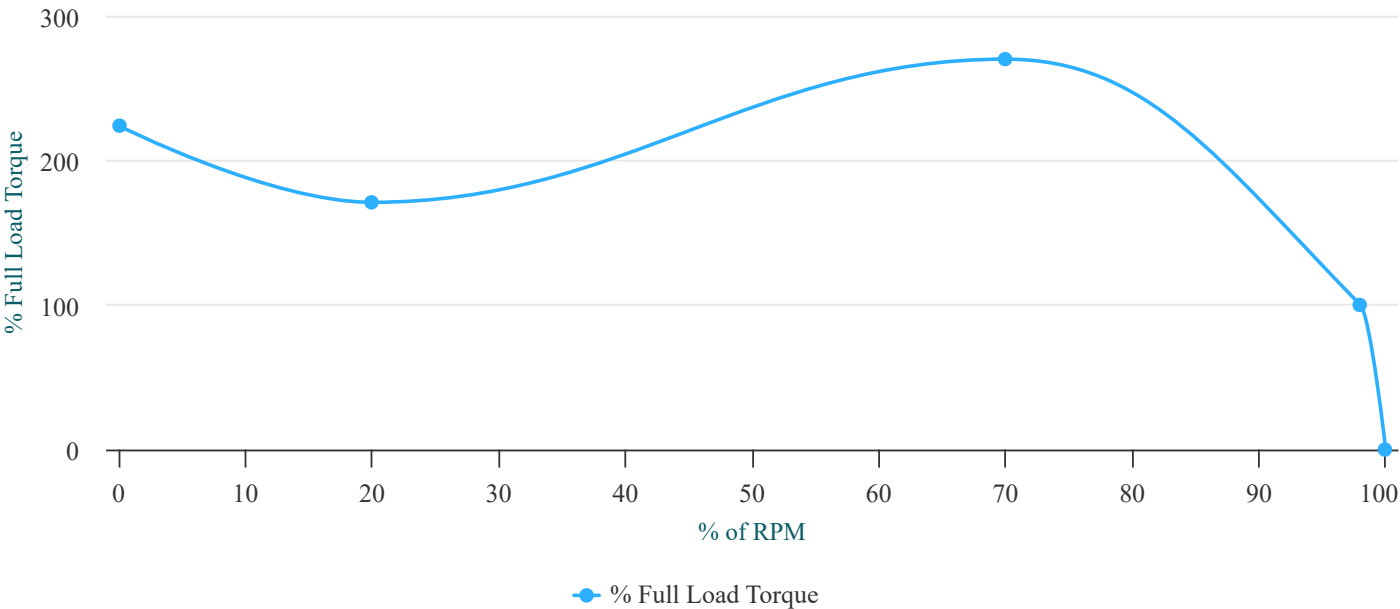
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	16	11.8
Brake Volts (VDC / VAC)	250	575

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Torque Speed (T-n) Curve



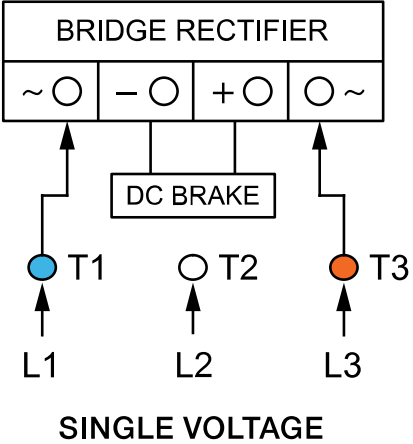
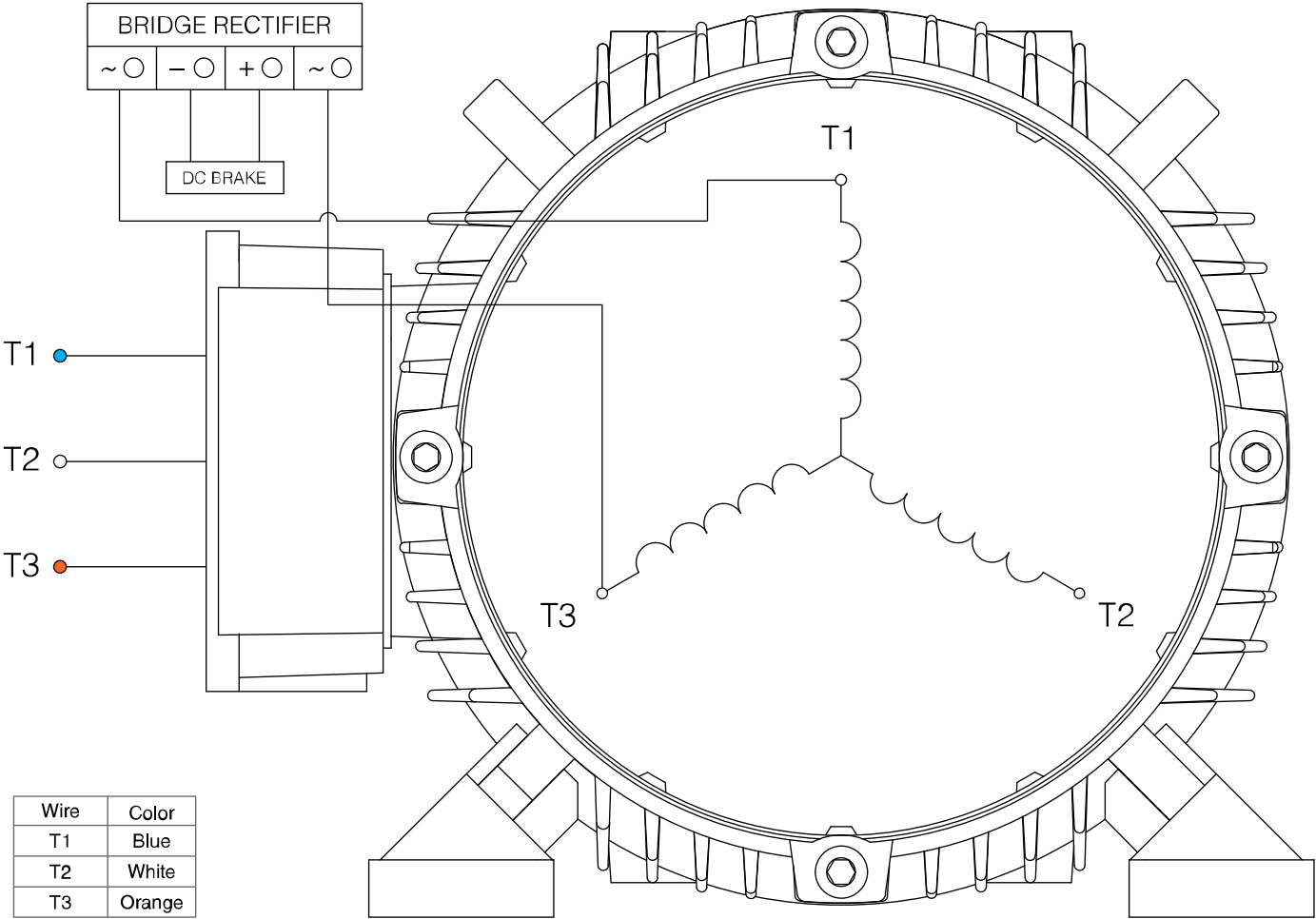
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	3	224	Start Configuration	DOL
Pull-Up Torque	5.2	171	Starting Current (A)	7.63
Breakdown Torque	8.2	270	No-Load Current (A)	0.7
Full Load Torque	6.8	100	No-Load Power Factor	0.09

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.7	0.8	0.1	1.2	1.5	1.5
Efficiency (%)	73.6	82.1	84.1	83.8	82.4	82.4
Speed (r/min)	1786	1774	1759	1742	1722	1722
Power Factor (cosΦ)	0.36	0.56	-	0.75	0.79	0.79
Input Power (kW)	0.26	0.46	0.67	0.9	1.14	1.14

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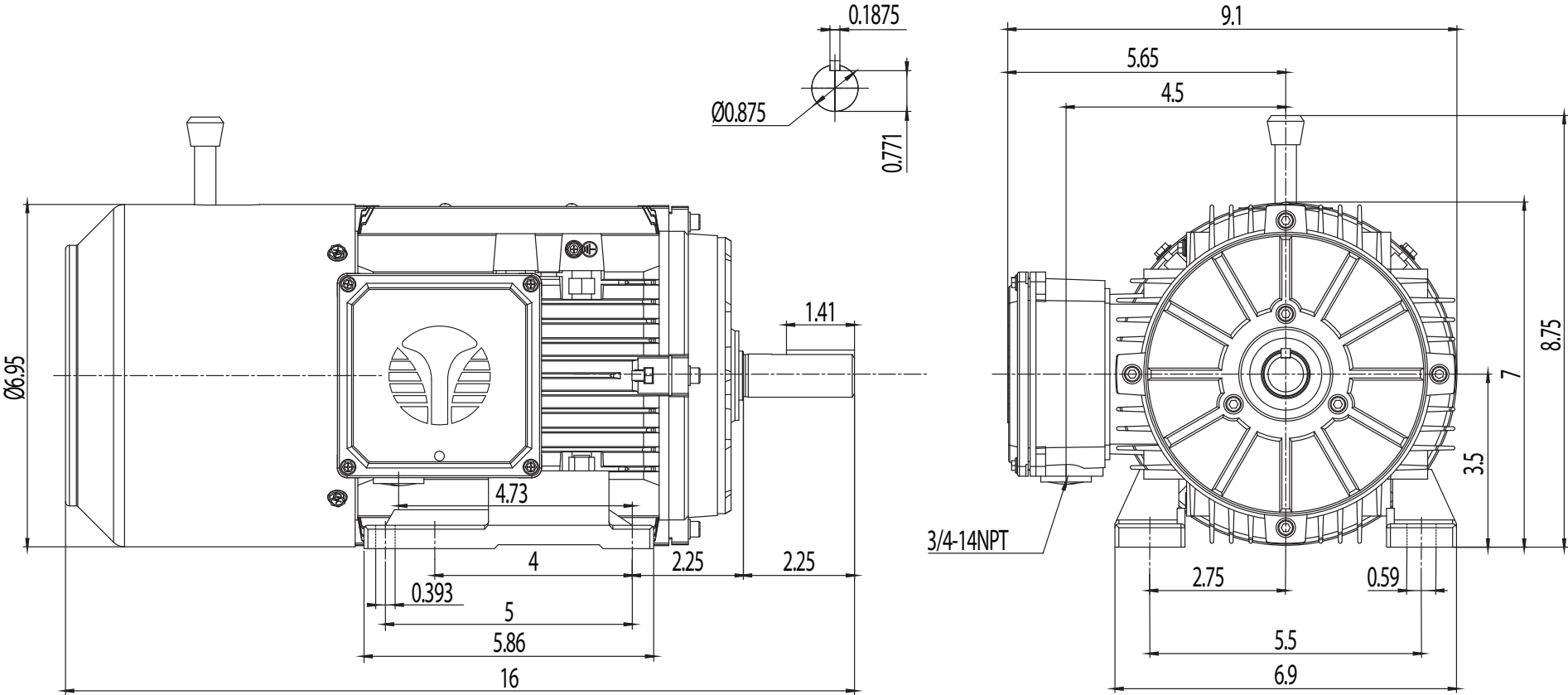
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED 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	04/07/25
PREMIUM T-FRAME BRAKE MOTORS	



NEMA Premium TEFC 143T

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