

NEMA

Model GRA0006F-TC-01
MFG PN: T145T1U6B

Model GRA0006F-TC-01

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0006F-TC-01	1	1145	575	3	60	145TC	Rigid/C-Flange	TEFC

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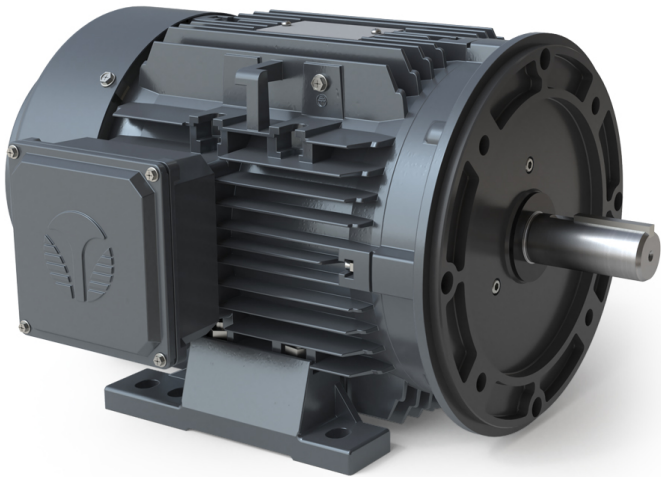
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NEMA

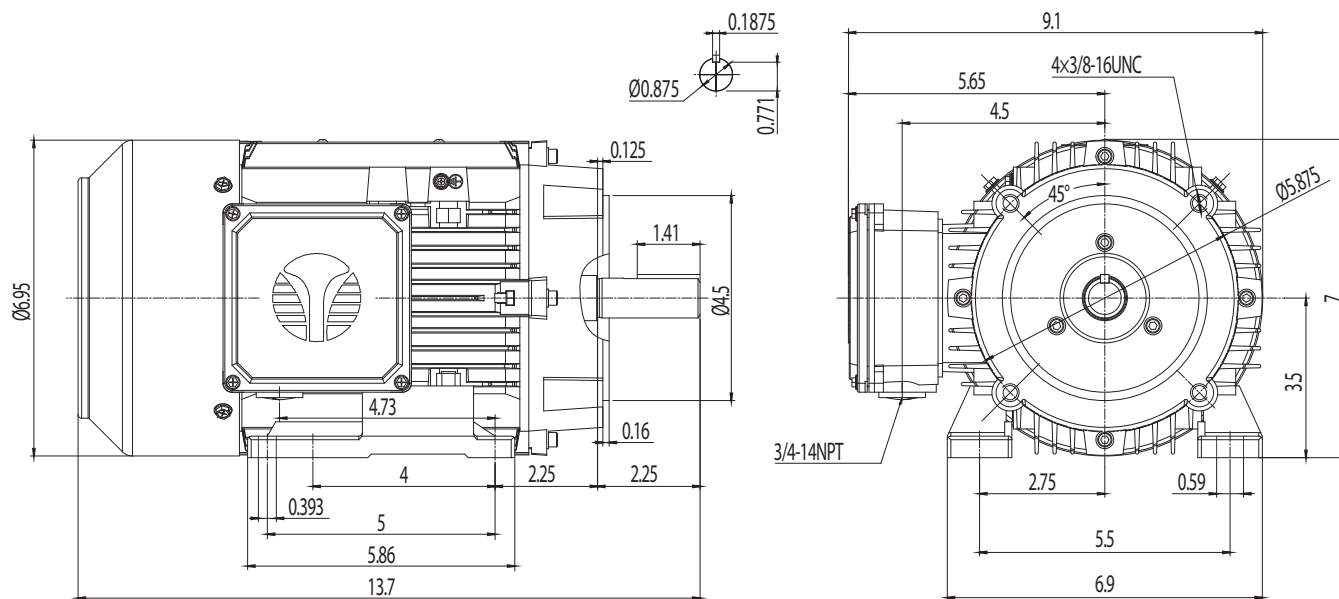
Model GRA0006F-TC-01
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ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1145	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	1.30	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked 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	42	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	145TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	34.5 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	51.2	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T2D	-

Questions? Call 1.888.286.1820

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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	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)	34.5	

NAMEPLATE LAYOUT

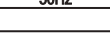


TECHTOP

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



TECHTOPCANADA.COM

CO986A
 E323353
 224693


CLASS 1, DIV 2, GROUPS A, B, C AND D

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

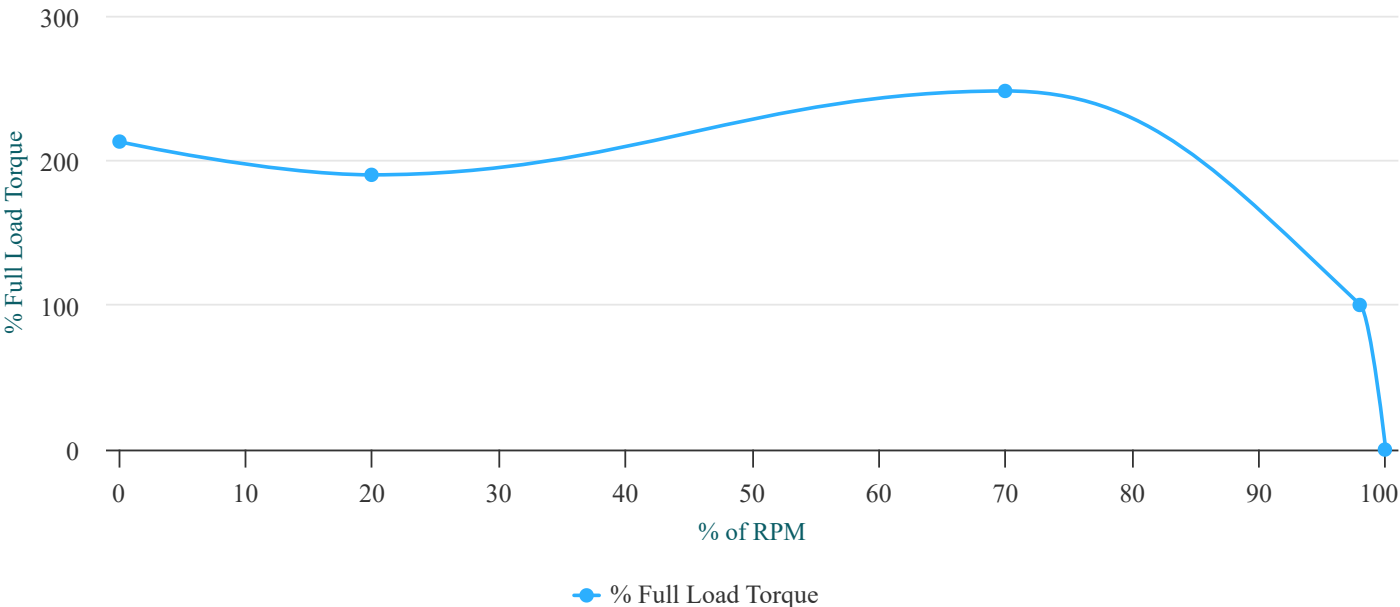
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Model GRA0006F-TC-01
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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	9.8	213
Pull-Up Torque	8.7	190
Breakdown Torque	11.4	248
Full Load Torque	4.6	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	6.5
No-Load Current (A)	0.8
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

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Wire	Color
T1	Blue
T2	White
T3	Orange



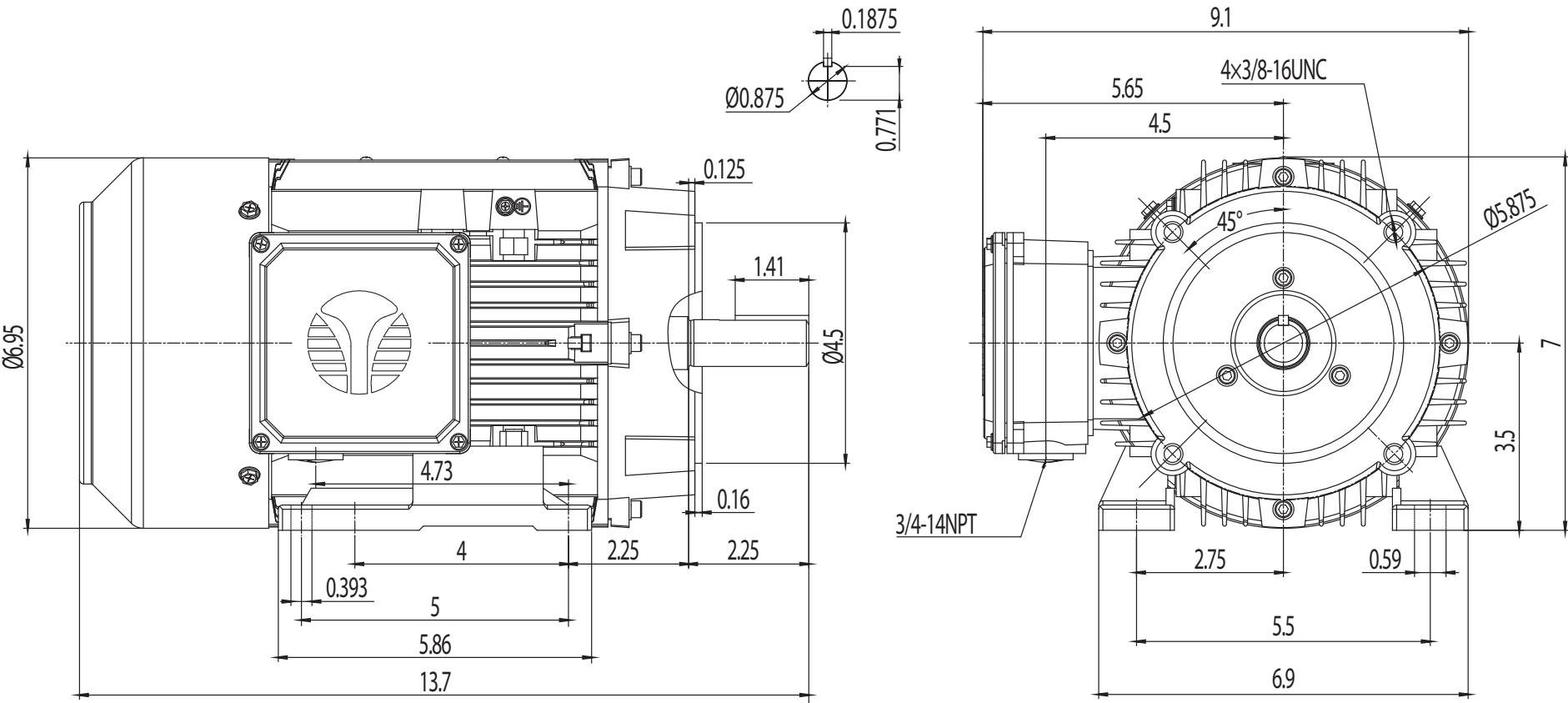
SINGLE VOLTAGE

- 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



 TECHTOP You can't top a Techtop.		NEMA 3Ø Y 3-Lead Single Voltage	
DRAWING NUMBER:	NEMA-3-3-Y	ISSUED DATE	15/01/25
CONNECTION:	Y		
NUMBER OF LEADS:	3	PREMIUM T-FRAME ALUMINUM MOTORS	
THERMAL PROTECTION:	-		

NEMA 3Ø Y 3-Lead Single Voltage



NEMA Premium TEFC 145TC

DRAWING NUMBER:	GR3-AL-TF-140TC-01	ISSUED DATE	15/01/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		

PREMIUM T-FRAME ALUMINUM MOTORS