

NEMA

Model **GRA0034D-TC-01**
MFG PN: T182T3U4B

Model **GRA0034D-TC-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0034D-TC-01	3	1760	230/460	3	60	182TC	Rigid/C-Flange	TEFC

Toronto

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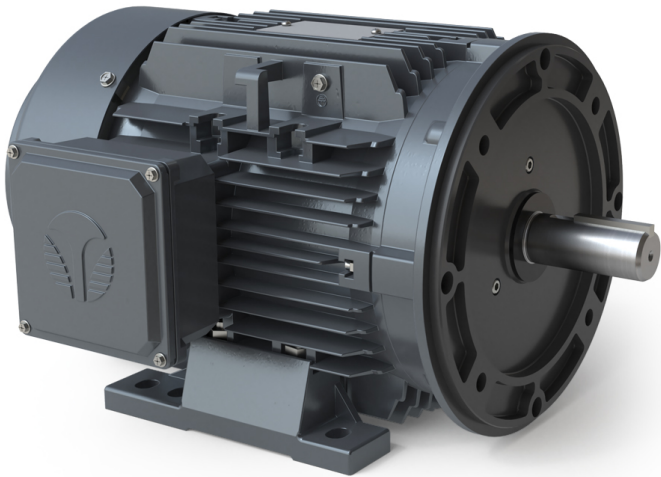
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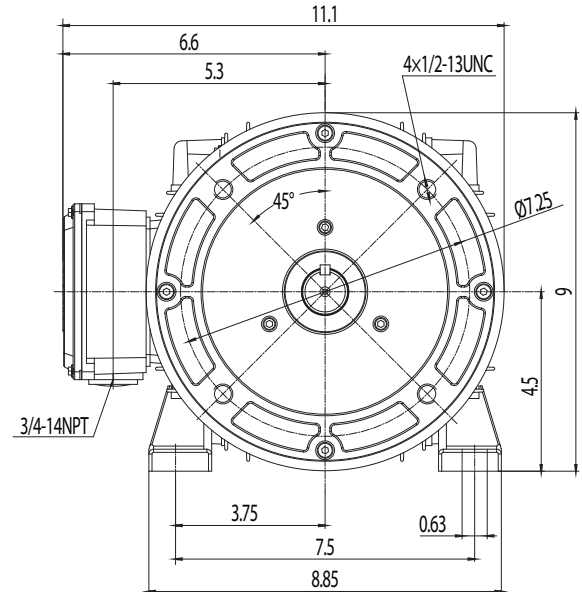
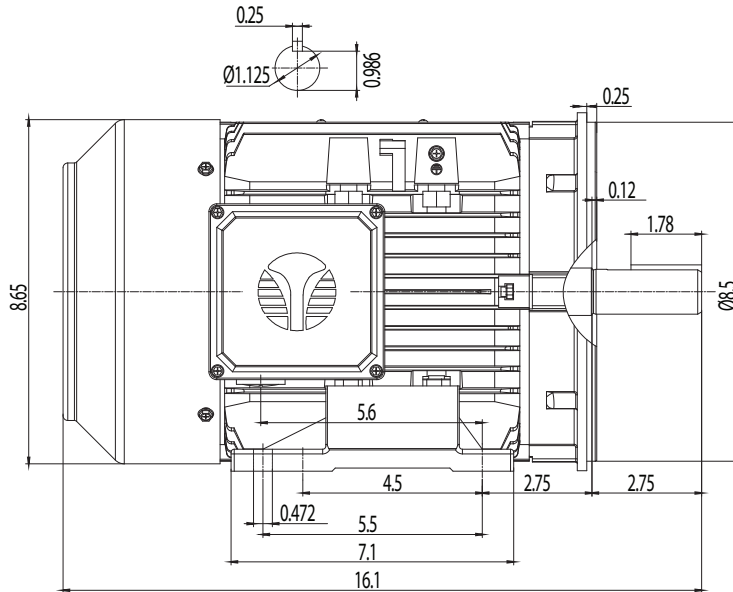
ELECTRICAL DATA		
Rated Motor Output Power	3	HP
	-	kW
Rated Motor Speed	1760	r/min 60Hz
	1455	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	7.62/3.81	A (I _n) @ 60Hz
	8.86/4.43	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	34.7	A (I _n) @ 60Hz
FI Current @ 208V	8.03	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	J	50Hz
Nominal Efficiency	89.5	% @ 60Hz
Nominal Power Factor	0.81	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	32	°C @ 60Hz
	45	°C @ 50Hz

GENERAL DATA		
Frame Size	182TC	
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	66	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T3	-

Questions? Call 1.888.286.1820

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	3	3
RPM	1760	1455
Voltage	230/460	190/380
Full Load Amps	7.62/3.81	8.86/4.43
Service Factor	1.25	1
KVA Code	L	J
Full Load Amps (208V)	8.03	-
Nominal Efficiency	89.5	88.4
Nominal Power Factor	0.81	-
Design	A	
Frame	182TC	
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		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			
CLASS 1, DIV 2, GROUPS A, B, C AND D		MADE IN CHINA	

VFD DUTY (S.F. 1.0)

Variable Torque
 Constant Torque

RATIO

30:1
 15:1

Hz*

2 - 60
 4 - 60

*For max speed please contact Techtop Canada

HAZARDOUS LOCATIONS

Class / Division
 Groups

CSA CERTIFIED

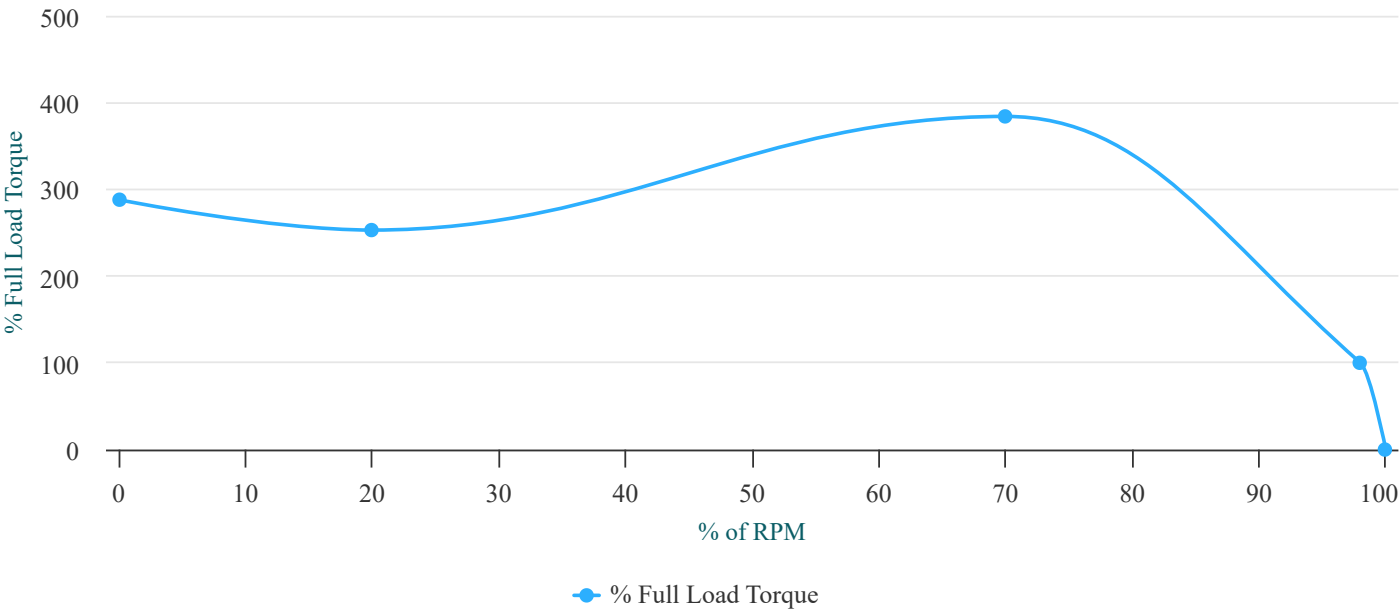
Class I, Div. 2
 A, B, C & D

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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	25.8	288	Start Configuration	DOL
Pull-Up Torque	22.6	253	Starting Current (A)	34.7
Breakdown Torque	34.4	384	No-Load Current (A)	2.1
Full Load Torque	9	100	No-Load Power Factor	0.07

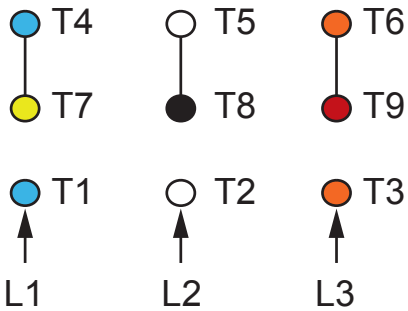
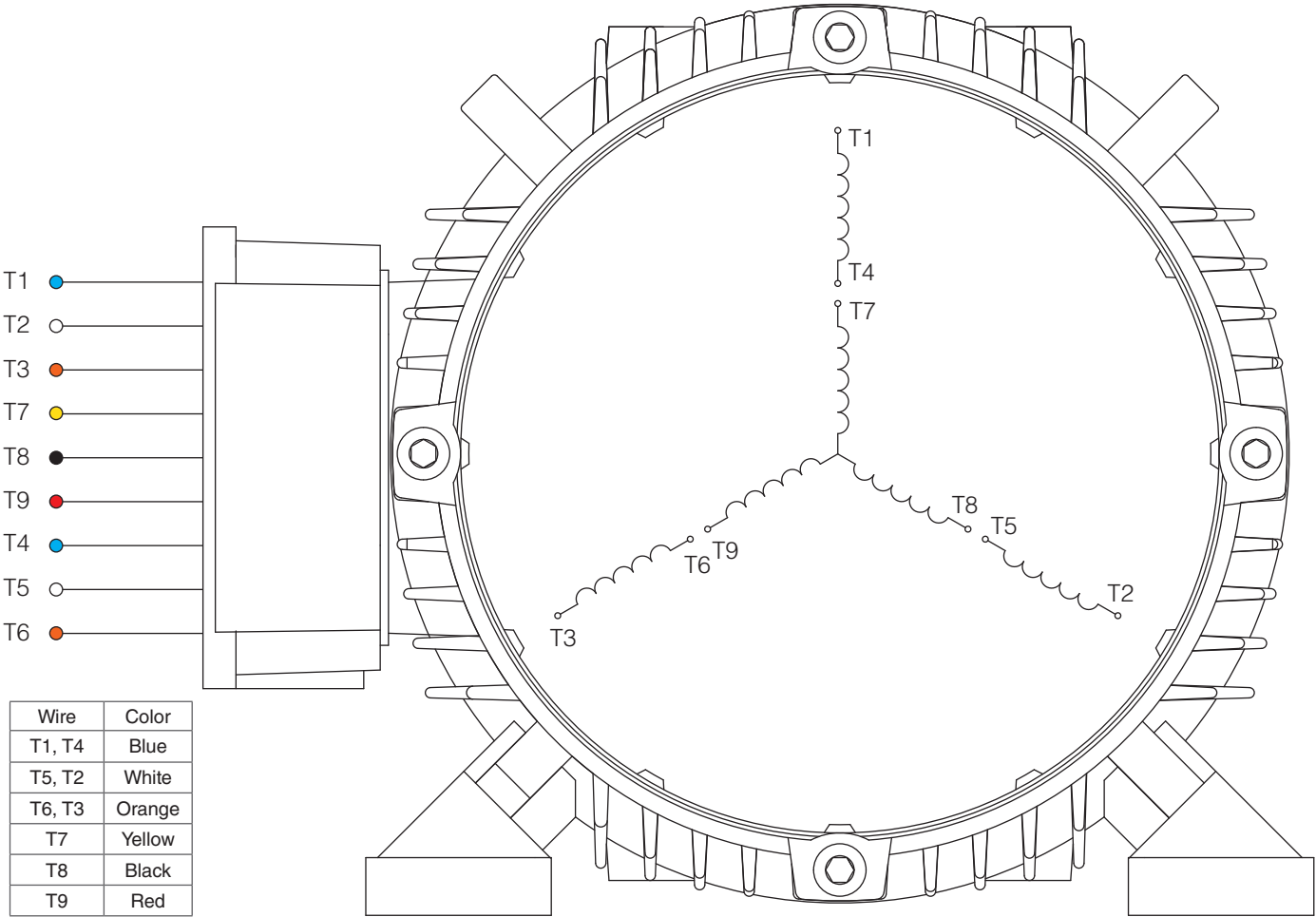
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	2.3	2.7	3.2	3.9	4.7	4.7
Efficiency (%)	80.7	87.6	89.3	89.5	89	89
Speed (r/min)	1791	1782	1773	1763	1752	1752
Power Factor (cosΦ)	0.38	0.59	0.72	0.79	0.83	0.83
Input Power (kW)	0.68	1.26	1.85	2.46	3.09	3.09

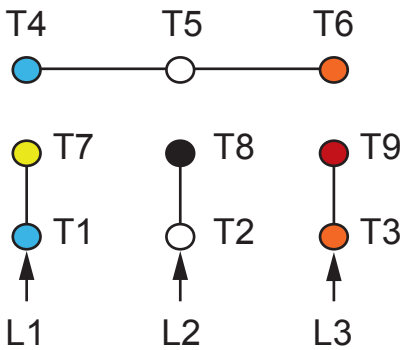
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HIGH VOLTAGE
(Y)



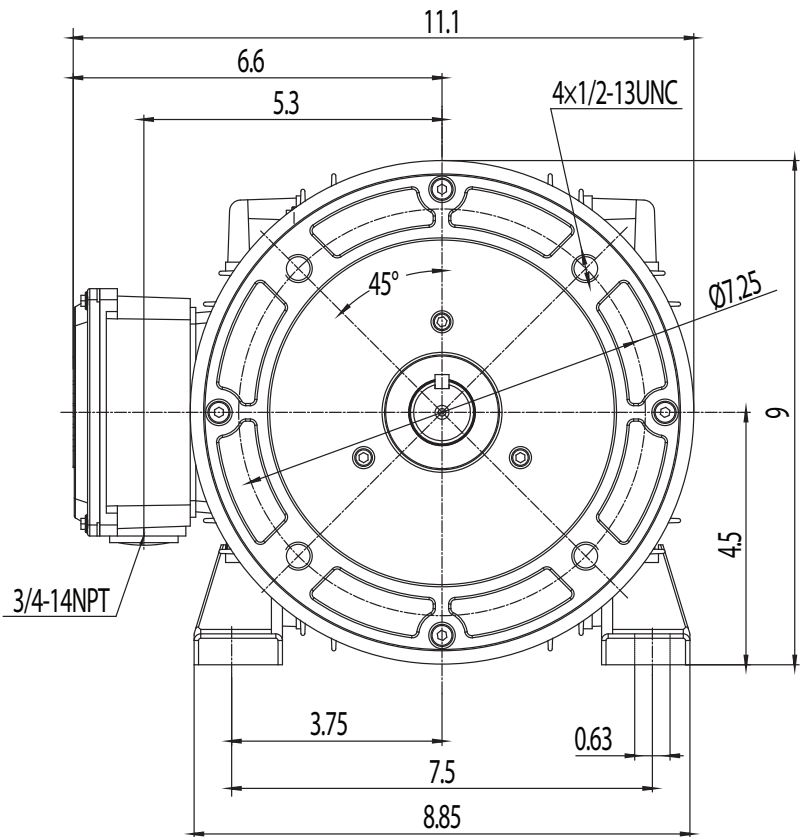
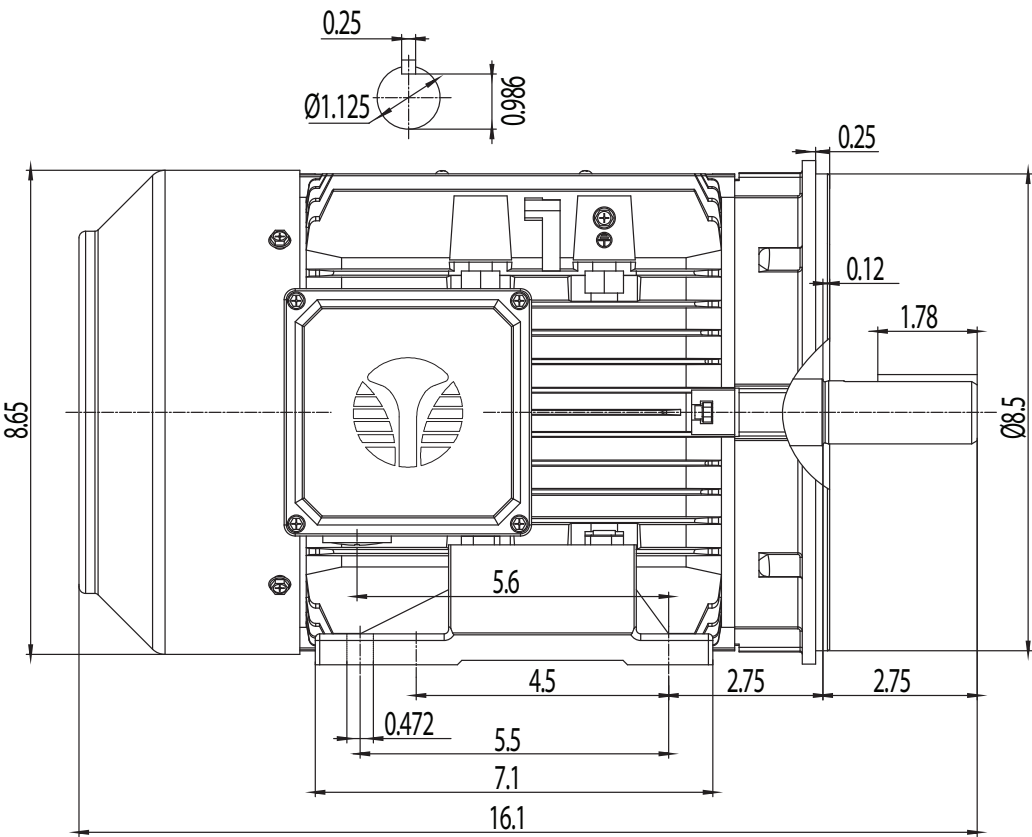
LOW VOLTAGE
(YY)

- 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



NEMA 3Ø YY/Y 9-Lead Dual Voltage

DRAWING NUMBER:	NEMA-3-9-YY-Y	ISSUED DATE	16/01/25
CONNECTION:	YY/Y	PREMIUM T-FRAME ALUMINUM MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		



NEMA Premium TEFC 182TC

DRAWING NUMBER:	GR3-AL-TF-180TC-01	ISSUED DATE	16/01/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		