

NEMA

Model GRC0006F-TD
MFG PN: T145T1U6B

Model GRC0006F-TD

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRC0006F-TD	1	1150	575	3	60	145TD	Rigid/D-Flange	TEFC

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Moncton

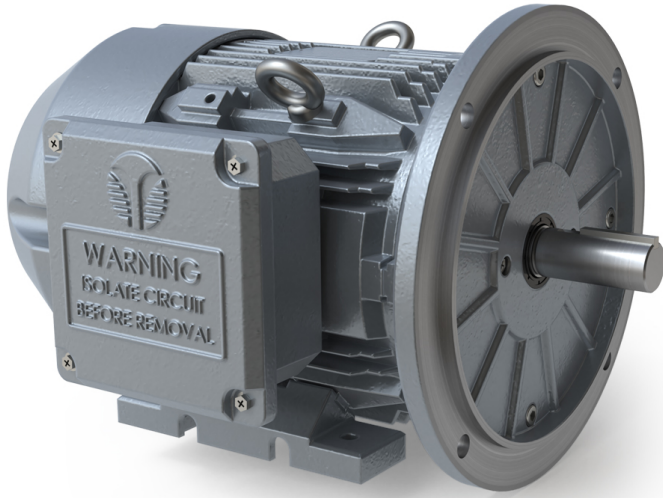
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NEMA

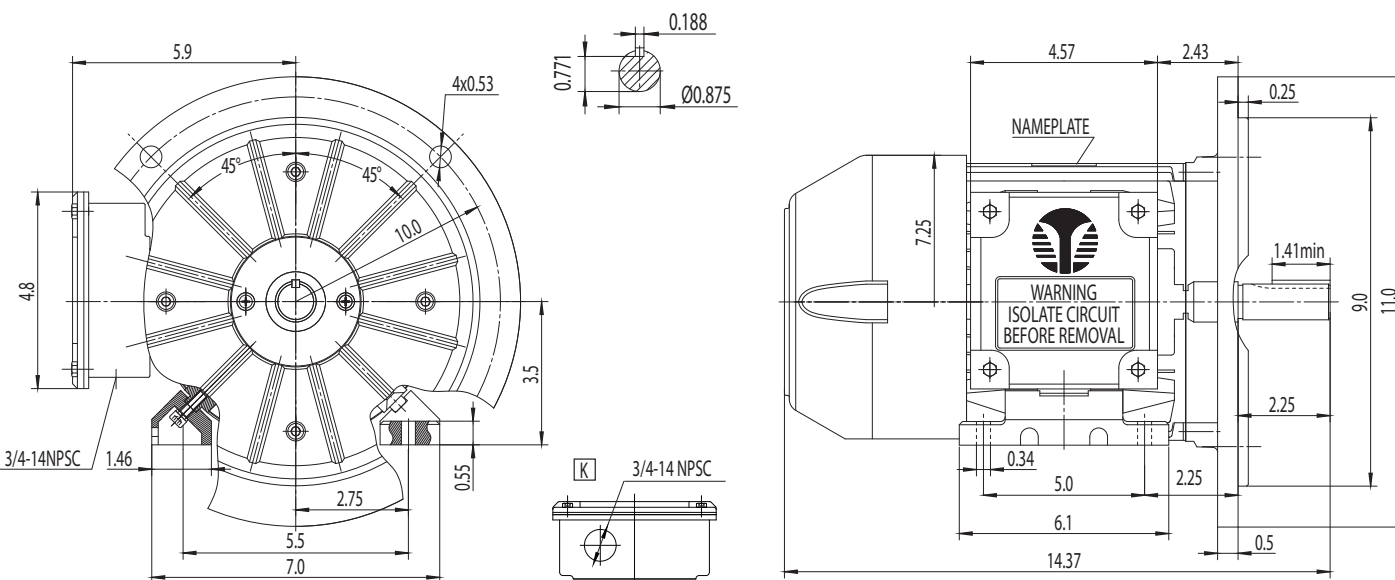
Model GRC0006F-TD
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ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1150	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	1.34	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	6.49	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	H	60Hz
	-	50Hz
Nominal Efficiency	82.5	% @ 60Hz
Nominal Power Factor	0.68	cosΦ @ 60Hz
Leads (Qty, Size)	3	18
Connection	Y	-
Coil Resistance	16.91	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	41.5	°C @ 60Hz
	60	°C @ 50Hz

GENERAL DATA		
Frame Size	145TD	
Enclosure	TEFC	
Mounting	Rigid/D-Flange	
Approximate Weight (lbs.)	56.9 lbs.	
Casing Material / Fan Cover	Cast Iron	Cast Iron
Shaft Material	-	
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	NO
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)	0.12	
Sound Pressure @ 3 FT dBA	-	
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

MFG PN: T145T1U6B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1150	-
Voltage	575	-
Full Load Amps	1.34	-
Service Factor	1.25	1
KVA Code	H	-
Full Load Amps (208V)	-	-
Nominal Efficiency	82.5	-
Nominal Power Factor	0.68	-
Design	B	
Frame	145TD	
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)	56.9	

TECHTOP

INDUSTRIAL THREE PHASE MOTOR
INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF

MODEL

TECHTOPCANADA.COM

NEMA
Premium®

60Hz

50Hz

MFG PN

MFG DATE

HP

RPM

VOLT

FLA

SF

KVA CODE

NOM.EFF

SER #

DESIGN

FRAME

ENCL

IP

DUTY

INS CL

AMB

WEIGHT

CC096A

BEARING SIZE

DE

ODE

GREASE: MOBIL POLYREX EM

lbs

MADE IN CHINA

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

IEEE 45 MARINE DUTY

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

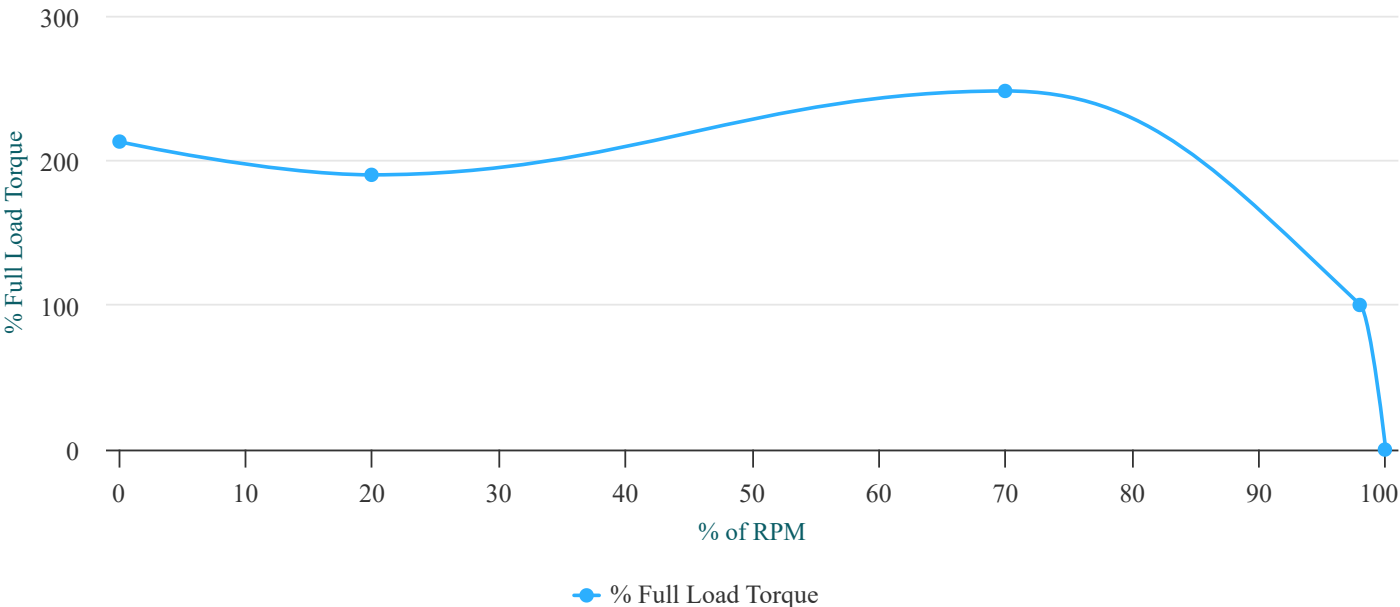
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Model GRC0006F-TD
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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	9.7	213	Start Configuration	DOL
Pull-Up Torque	8.7	190	Starting Current (A)	6.49
Breakdown Torque	11.3	248	No-Load Current (A)	0.8
Full Load Torque	4.6	100	No-Load Power Factor	0.09

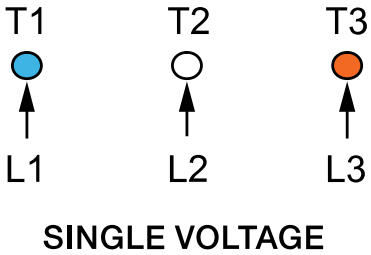
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.9	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	1152	1136	1136
Power Factor (cosΦ)	0.31	0.49	0.62	0.7	0.74	0.74
Input Power (kW)	0.26	0.47	0.68	0.91	1.16	1.16

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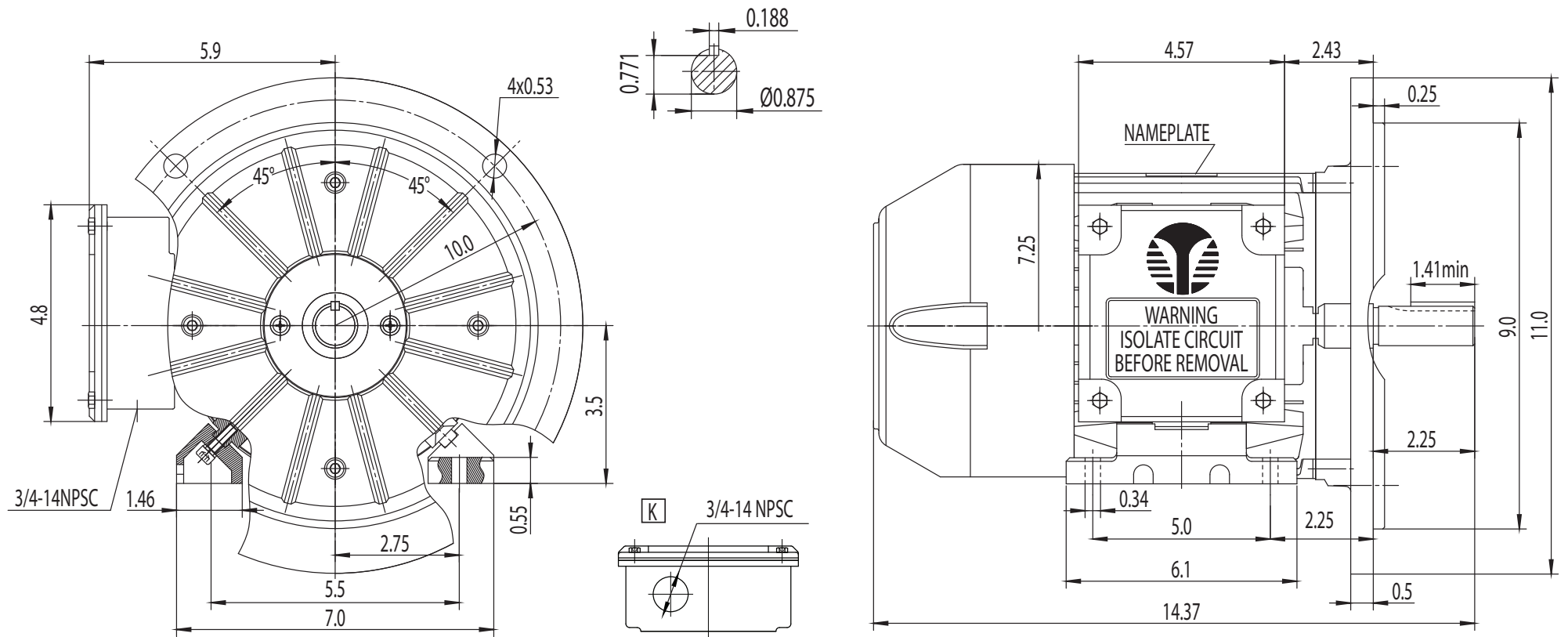
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



DRAWING NUMBER:	NEMA-3-3-Y
CONNECTION:	Y
NUMBER OF LEADS:	3
THERMAL PROTECTION:	-

NEMA 3Ø Y 3-Lead Single Voltage

ISSUED DATE	11/03/25
PREMIUM T-FRAME CAST IRON MOTORS	



NEMA Premium TEFC 145TD

DRAWING NUMBER:	GR3-CI-TF-145TD-CFC	ISSUED DATE	11/03/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/D-Flange	PREMIUM T-FRAME CAST IRON MOTORS	
CASING MATERIAL:	Cast Iron		