

NEMA

Model **GRA0006D-TD-01**
MFG PN: T145T1U6B

Model **GRA0006D-TD-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0006D-TD-01	1	1145	230/460	3	60	145TD	Rigid/D-Flange	TEFC

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techtopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techtopcanada.com

Moncton

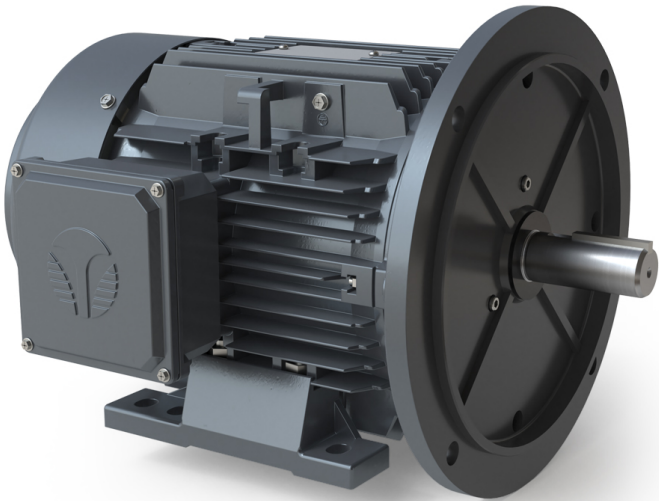
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techtopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techtopcanada.com



Index

Motor General Data Sheet	P 2
Nameplate Information	P 3
Technical Performance Data	P 4
Motor General Wiring Diagram	P 5
Motor General Outline Drawing	P 6

NEMA

Model GRA0006D-TD-01
MFG PN: T145T1U6B

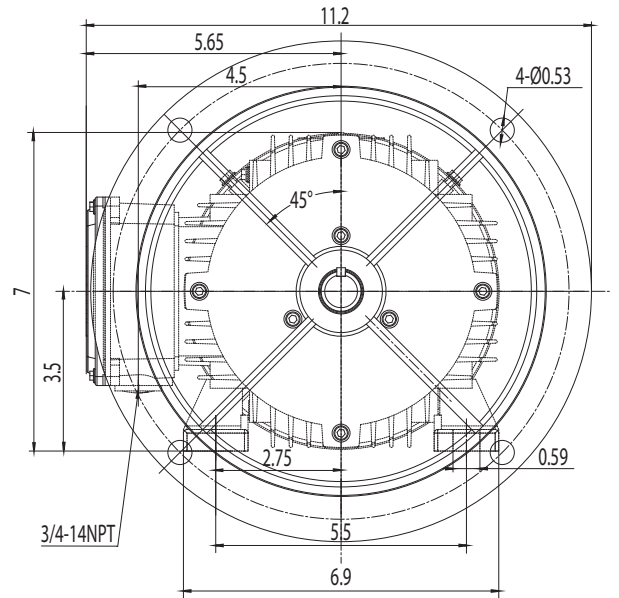
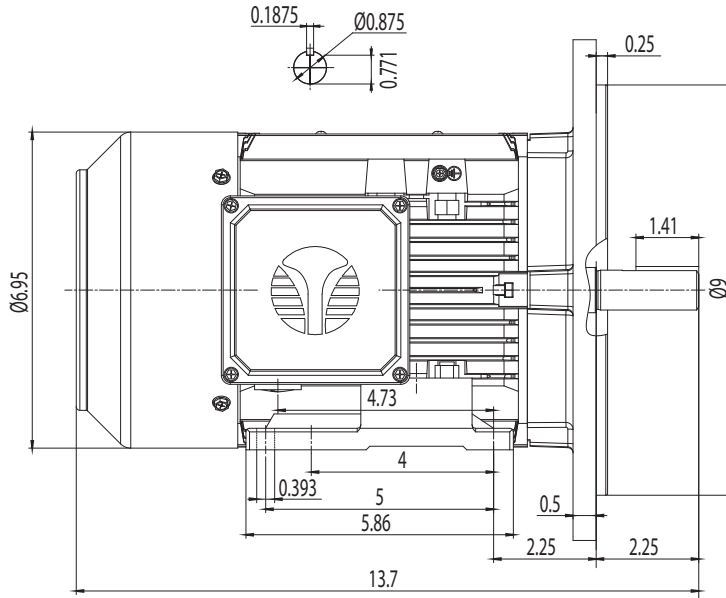
ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1145	r/min 60Hz
	935	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	3.26/1.63	A (I _n) @ 60Hz
	3.80/1.90	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	8.12	A (I _n) @ 60Hz
FI Current @ 208V	3.36	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	H	60Hz
	G	50Hz
Nominal Efficiency	82.5	% @ 60Hz
Nominal Power Factor	0.7	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	42	°C @ 60Hz
	60	°C @ 50Hz

GENERAL DATA		
Frame Size	145TD	
Enclosure	TEFC	
Mounting	Rigid/D-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

NEMA

Model **GRA0006D-TD-01**
MFG PN: T145T1U6B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1145	935
Voltage	230/460	190/380
Full Load Amps	3.26/1.63	3.80/1.90
Service Factor	1.25	1
KVA Code	H	G
Full Load Amps (208V)	3.36	-
Nominal Efficiency	82.5	79.1
Nominal Power Factor	0.7	-
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)	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
NEMA Premium® TECHTOPCANADA.COM		MADE IN CHINA	
CLASS 1, DIV 2, GROUPS A, B, C AND D		Energy Verified Only	

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

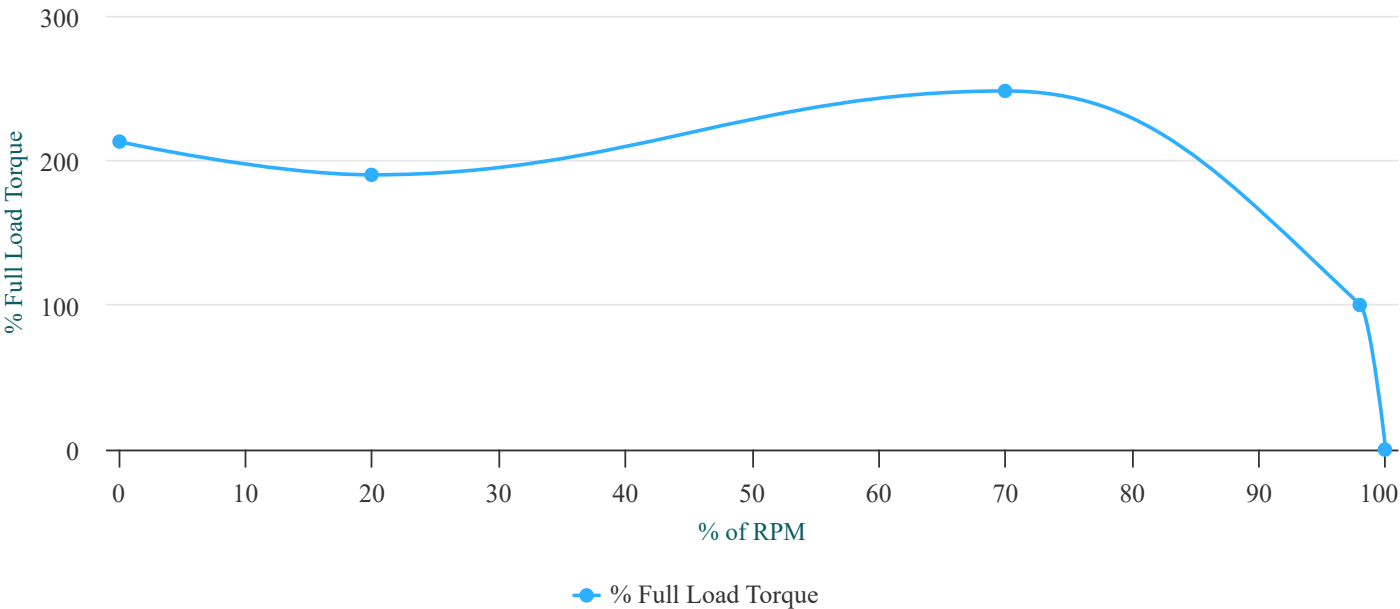
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

Questions? Call 1.888.286.1820



Model GRA0006D-TD-01
MFG PN: T145T1U6B

Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	9.8	213	Start Configuration	DOL
Pull-Up Torque	8.7	190	Starting Current (A)	8.12
Breakdown Torque	11.4	248	No-Load Current (A)	1
Full Load Torque	4.6	100	No-Load Power Factor	0.09

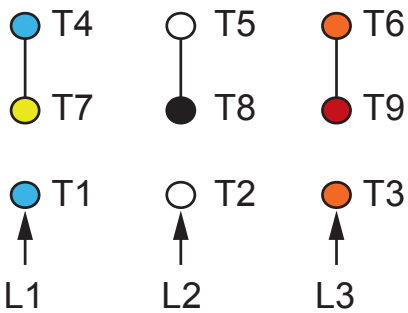
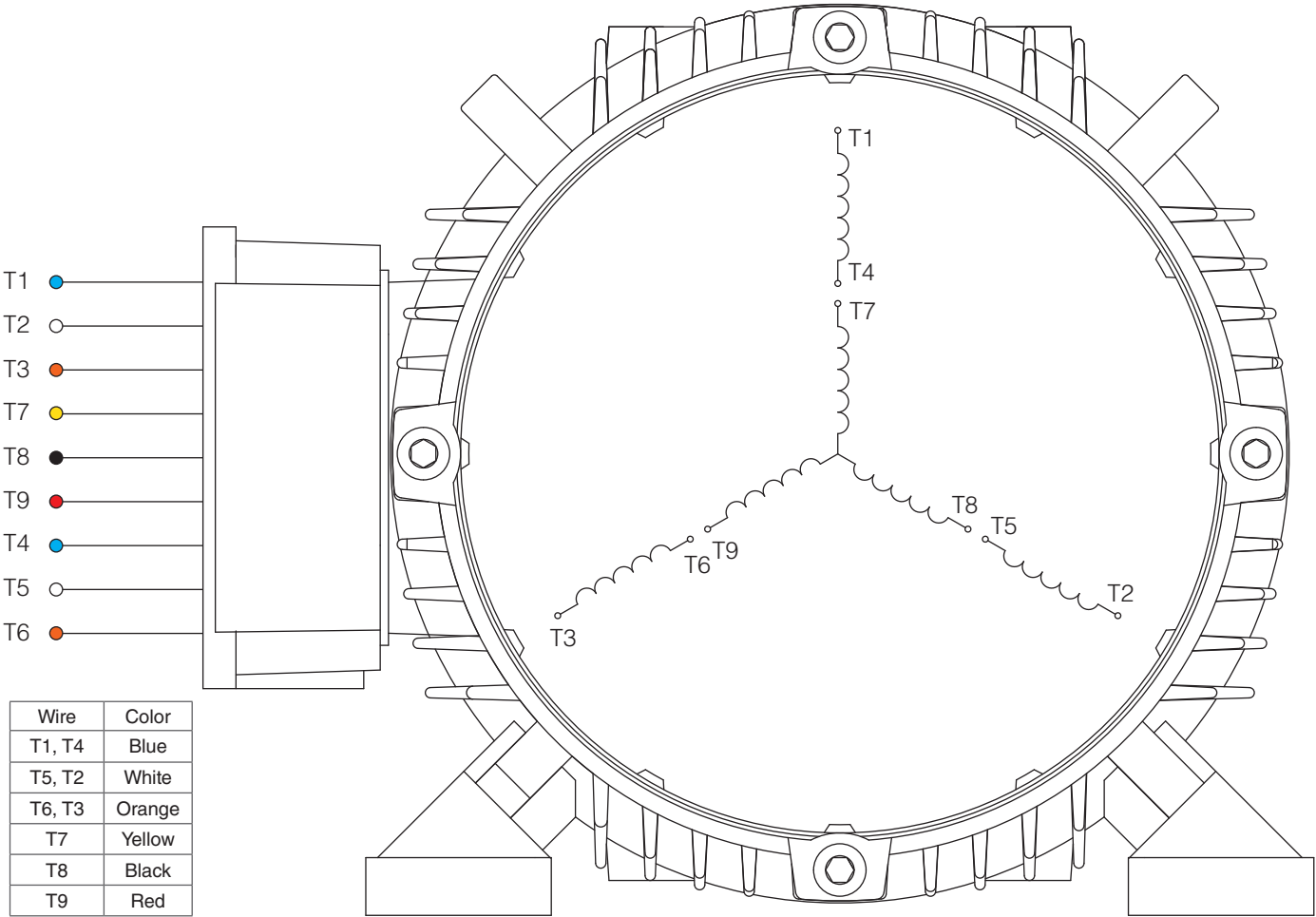
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.1	1.2	1.4	1.6	2	2
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

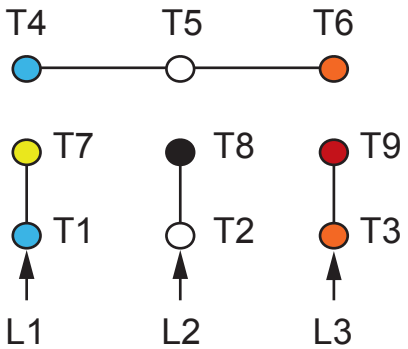
Questions? Call 1.888.286.1820



Model **GRA0006D-TD-01**
MFG PN: T145T1U6B



HIGH VOLTAGE
(Y)



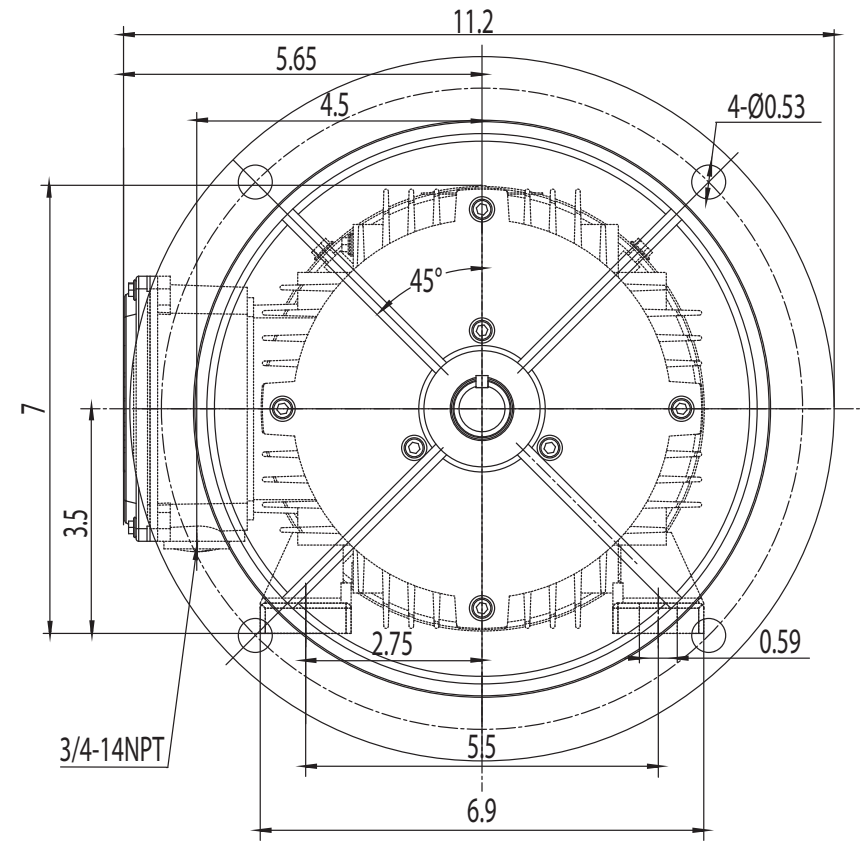
LOW VOLTAGE
(YY)

- 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	15/01/25
CONNECTION:	YY/Y	PREMIUM T-FRAME ALUMINUM MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		



DRAWING NUMBER:	GR3-AL-TF-140TD-01	ISSUED DATE	15/01/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/D-Flange	PREMIUM T-FRAME ALUMINUM MOTORS	
CASING MATERIAL:	Cast Aluminum		