NEMA | **Model DPC1254FS**
MFG PN: TDC 405T125U4B

Model **DPC1254FS**
Product Data Package

MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC1254FS	125	1780	575	3	60	405T	Rigid	ODP

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TOLL FREE 1.888.286.1820
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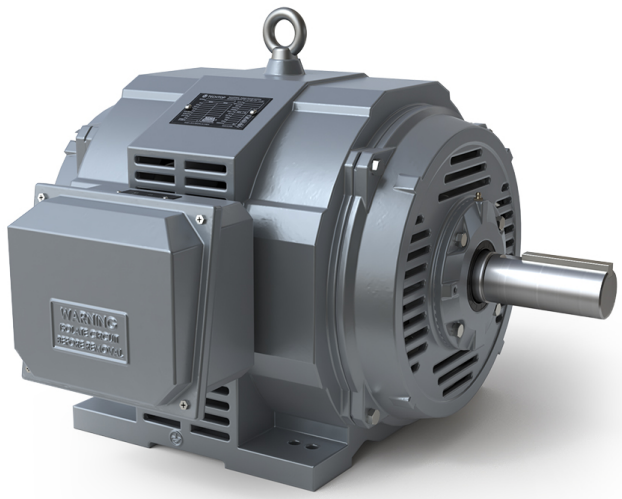

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ELECTRICAL DATA		
Rated Motor Output Power	125	HP
	90	kW
Rated Motor Speed	1780	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	115.47	A (I_n) @ 60Hz
	-	A (I_n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	0	A (I_n) @ 60Hz
FI Current @ 208V	-	A (I_n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	95.4	% @ 60Hz
Nominal Power Factor	0.85	cosΦ @ 60Hz
Leads (Qty, Size)	6	2
Connection	D	–
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	44.1	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	405T	
Enclosure	ODP	
Mounting	Rigid	
Approximate Weight (lbs.)	1013 lbs.	
Casing Material / Fan Cover	Cast Iron	-
Shaft Material	1045	
NEMA Design	A	
Degree of Protection (IP)	23	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	NO	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6316 C3	
Bearing ODE Side	6314 C3	
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	-	-

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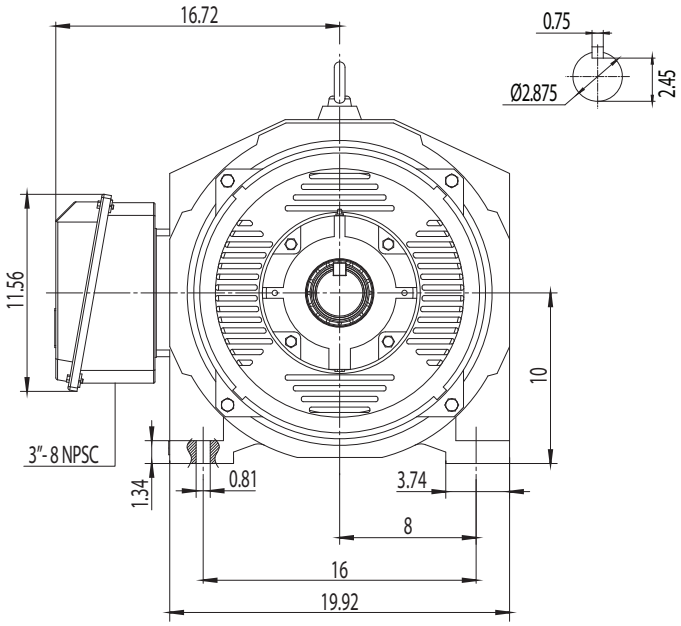
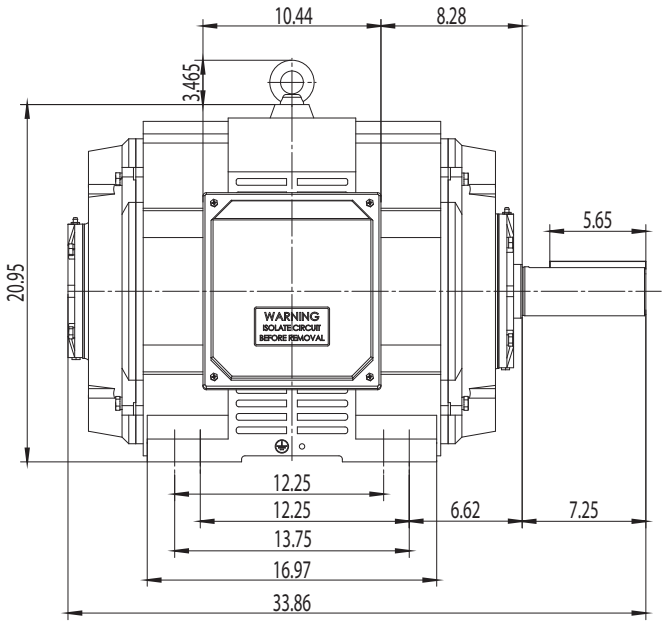
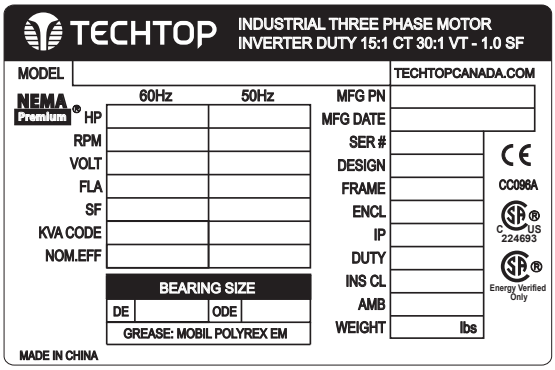




NAMEPLATE DATA	60Hz	50Hz
Horse Power	125	-
RPM	1780	-
Voltage	575	-
Full Load Amps	115.47	-
Service Factor	1.15	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	95.4	-
Nominal Power Factor	0.85	-
Design	A	
Frame	405T	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6316 C3	
Opposite Drive End Bearing	6314 C3	
Weight (lbs)	1013	

NAMEPLATE LAYOUT



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	-
Class / Division	-
Groups	-

Questions? **Call 1.888.286.1820**

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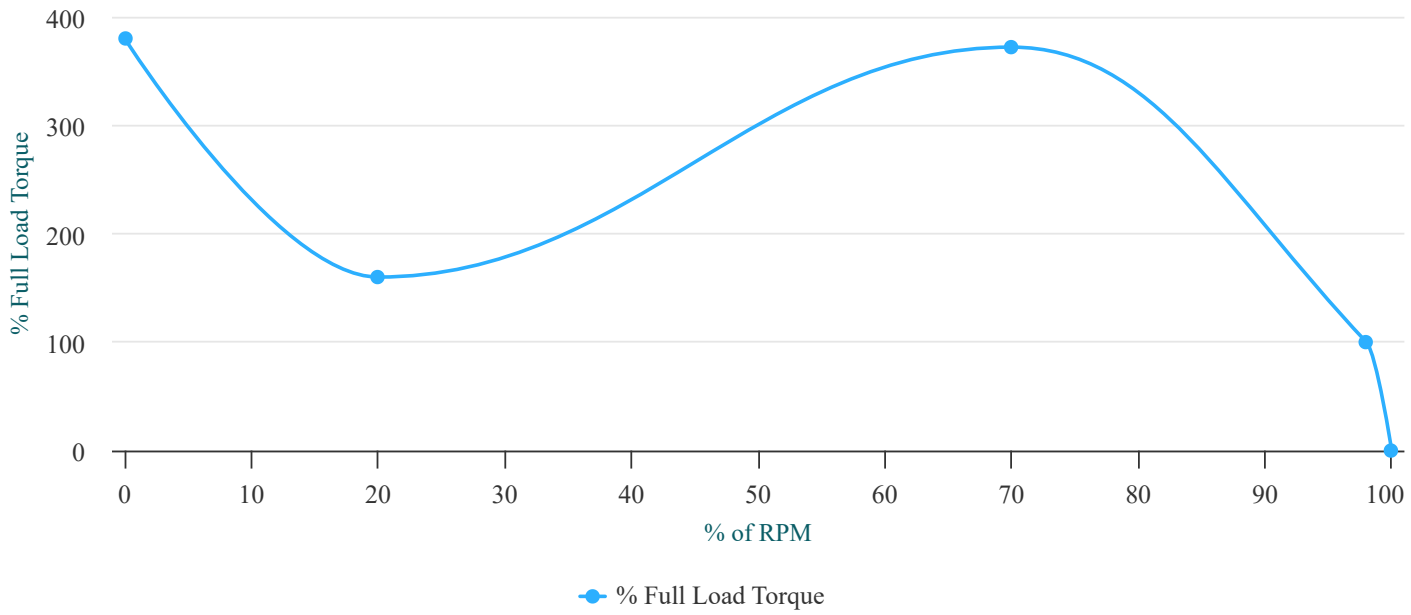
Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz — **TYPICAL PERFORMANCE - NOT GUARANTEED VALUES**

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	1402.1	380	Start Configuration	DOL
Pull-Up Torque	590.4	160	Starting Current (A)	0
Breakdown Torque	1372.6	372	No-Load Current (A)	37.5
Full Load Torque	369	100	No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	45.7	64.8	87.8	113.7	141.9	141.9
Efficiency (%)	91.9	94.6	95.1	94.9	94.4	94.4
Speed (r/min)	1796	1791	1785	1781	1776	1776
Power Factor (cosΦ)	0.56	0.76	0.84	0.87	0.87	0.87
Input Power (kW)	25.3	49.14	73.37	98.04	123.17	123.17

NEMA

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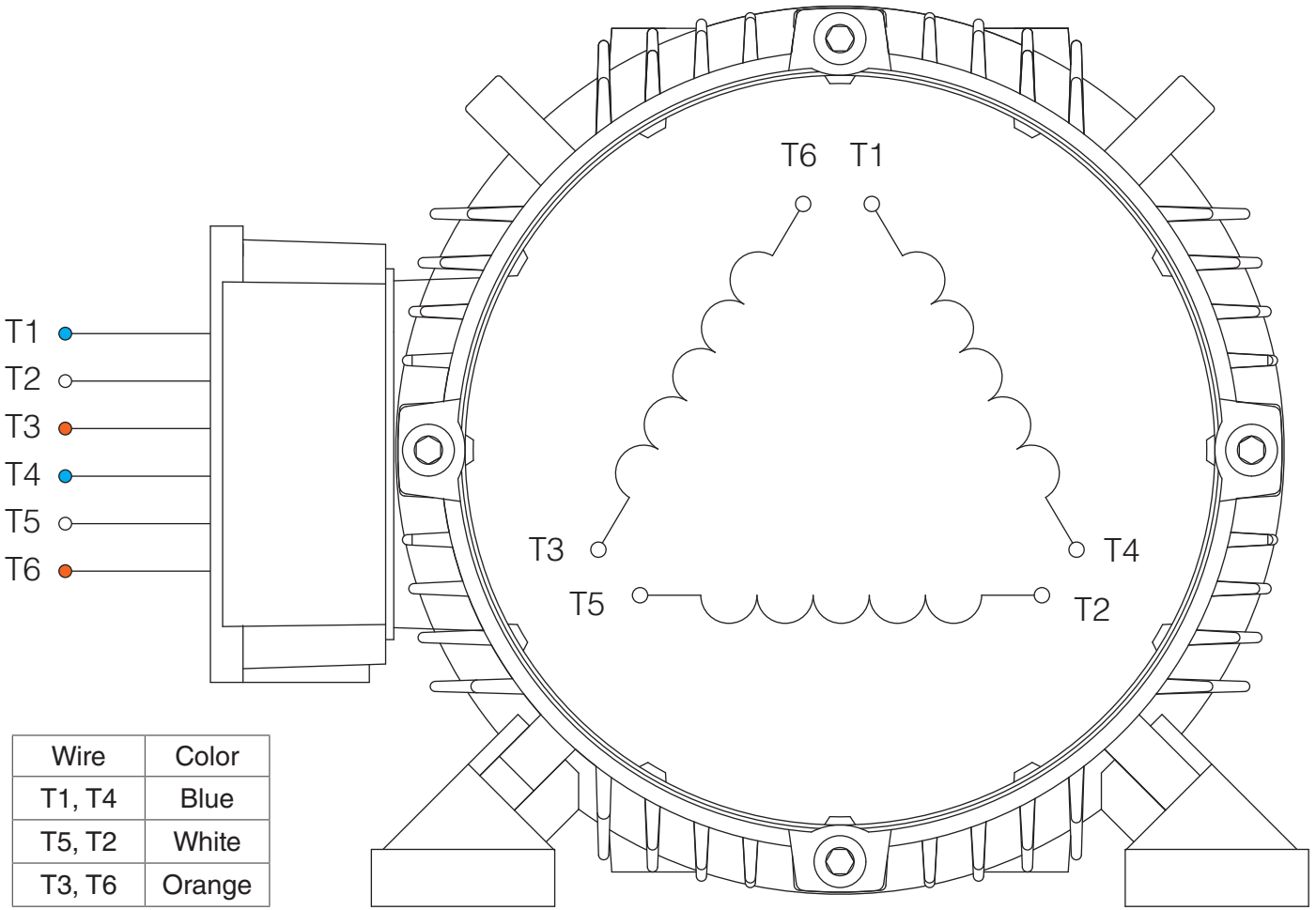
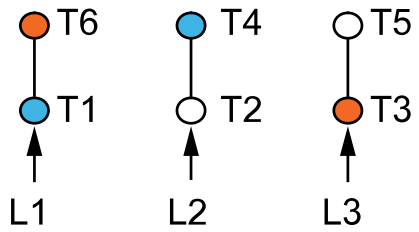


Wire	Color
T1, T4	Blue
T5, T2	White
T3, T6	Orange



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

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NEMA 3Ø D 6-Lead Single Voltage

DRAWING NUMBER:	NEMA-3-6-D
CONNECTION:	D
NUMBER OF LEADS:	6
THERMAL PROTECTION:	-

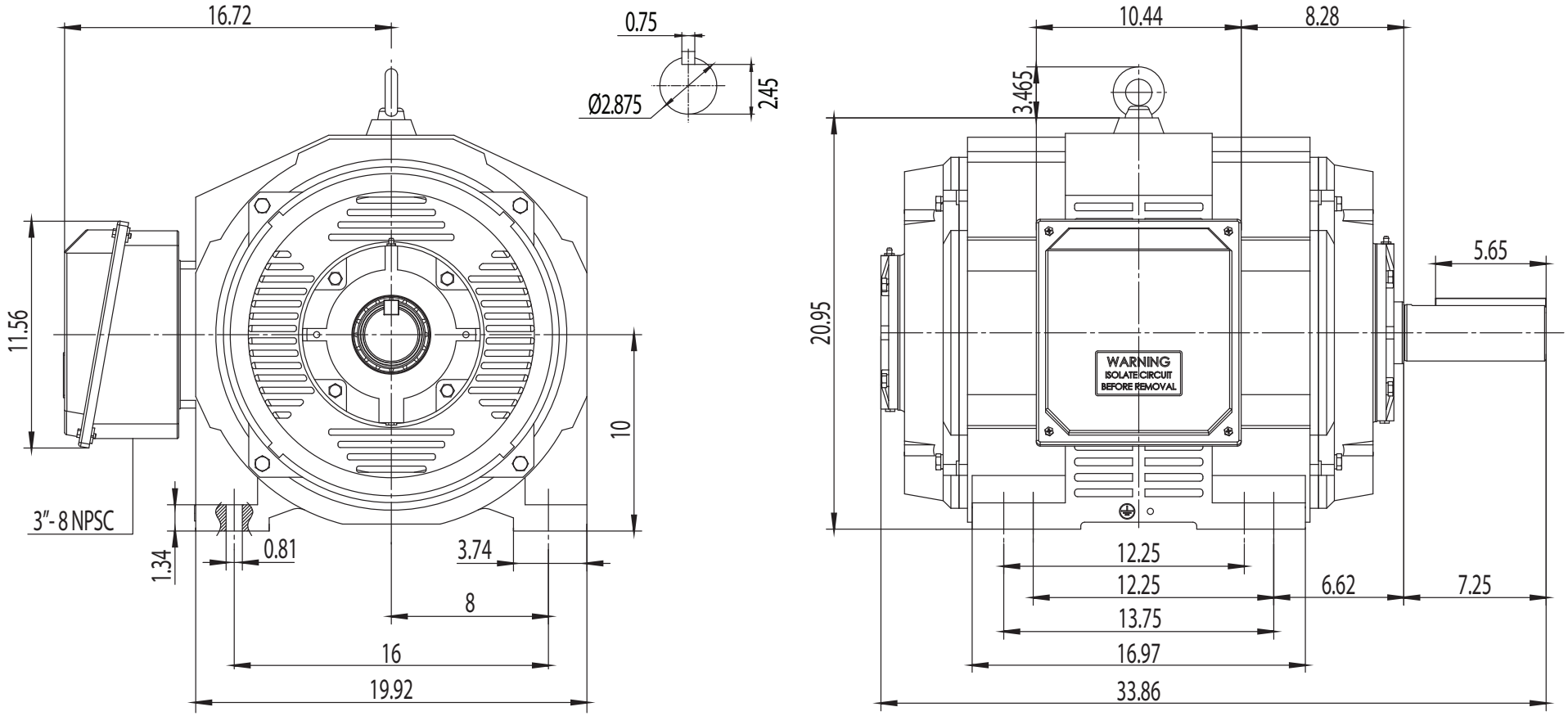
ISSUED DATE	27/06/25

PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP

NEMA

Model DPC1254FS

MFG PN: TDC 405T125U4B



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NEMA Premium ODP 405T

DRAWING NUMBER:	GR3-CI-DP-404(5)T	**ISSUED DATE**	27/06/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
CASING MATERIAL:	Cast Iron		