

NEMA

Model DPC0756F-TC
MFG PN: TDC 405T75U6B

Model DPC0756F-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC0756F-TC	75	1185	575	3	60	405TC	Rigid/C-Flange	ODP

Toronto

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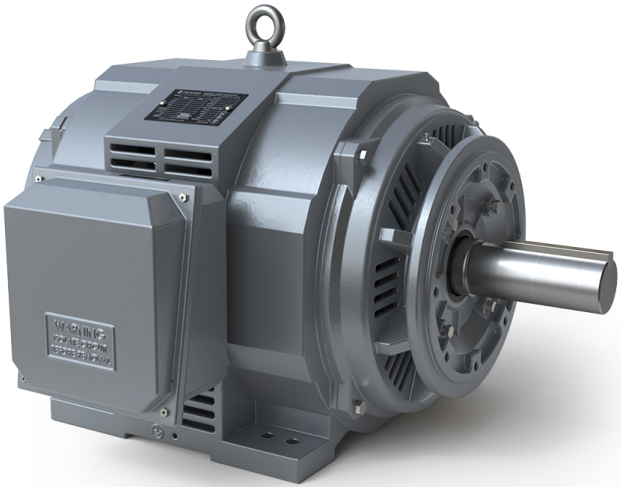
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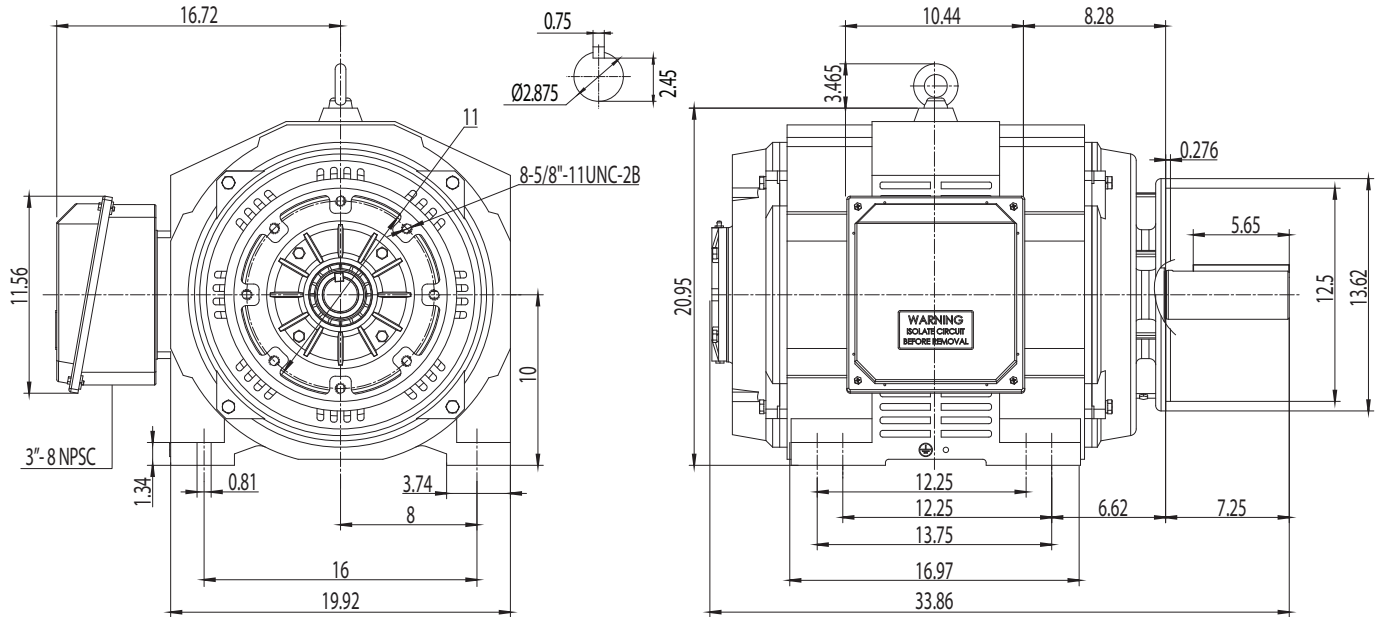
ELECTRICAL DATA		
Rated Motor Output Power	75	HP
	55	kW
Rated Motor Speed	1185	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	69.13	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	586.88	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	H	60Hz
	-	50Hz
Nominal Efficiency	94.5	% @ 60Hz
Nominal Power Factor	0.86	cosΦ @ 60Hz
Leads (Qty, Size)	6	6
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	33.2	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	405TC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	985 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	NU 316	
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	75	-
RPM	1185	-
Voltage	575	-
Full Load Amps	69.13	-
Service Factor	1.15	-
KVA Code	H	-
Full Load Amps (208V)	-	-
Nominal Efficiency	94.5	-
Nominal Power Factor	0.86	-
Design	A	
Frame	405TC	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	NU 316	
Opposite Drive End Bearing	6314 C3	
Weight (lbs)	985	

NAMEPLATE LAYOUT

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
HP			MFG DATE
RPM			SER #
VOLT			DESIGN
FLA			FRAME
SF			ENCL
KVA CODE			IP
NOM.EFF			DUTY
BEARING SIZE		INS CL	
DE	ODE	AMB	
GREASE: MOBIL POLYREX EM		WEIGHT	
MADE IN CHINA		lbs	

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

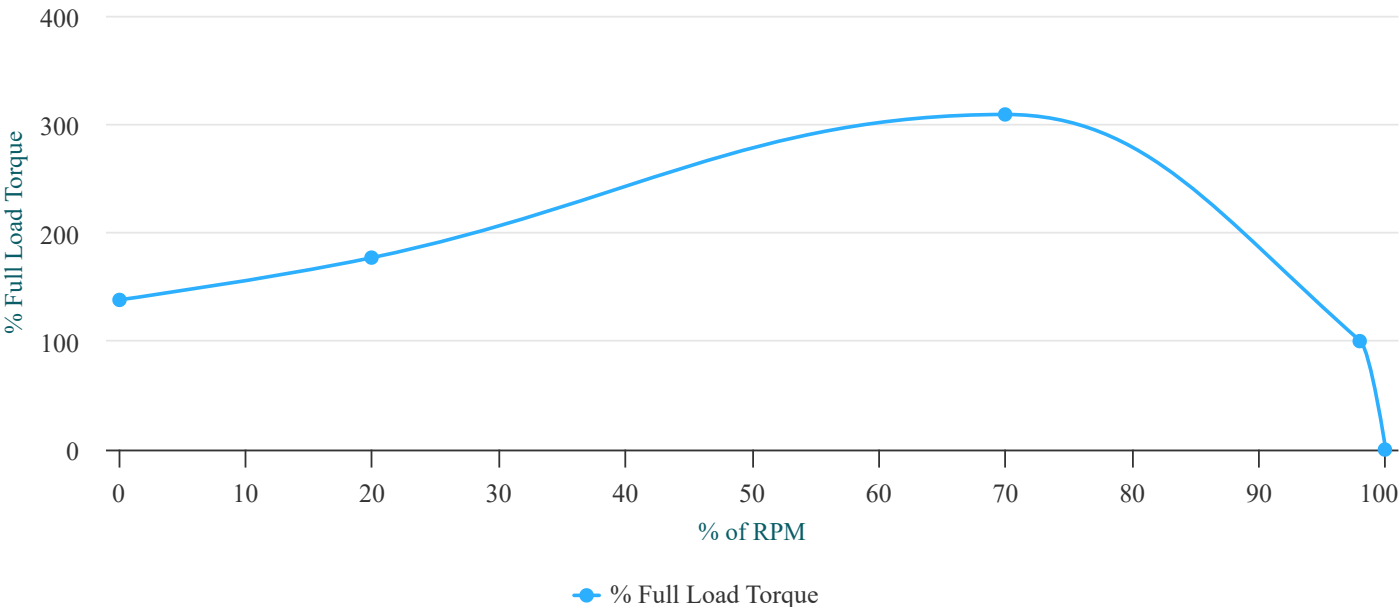
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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	458.9	138	Start Configuration	DOL
Pull-Up Torque	588.6	177	Starting Current (A)	586.88
Breakdown Torque	1027.6	309	No-Load Current (A)	29.7
Full Load Torque	332.6	100	No-Load Power Factor	-

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	33.8	43.7	56.1	70.6	86.5	86.5
Efficiency (%)	71.7	74.7	75.3	75.3	74.9	74.9
Speed (r/min)	958	956	953	951	948	948
Power Factor (cosΦ)	0.36	0.54	0.63	0.67	0.68	0.68
Input Power (kW)	12.27	23.56	35.04	46.75	58.71	58.71

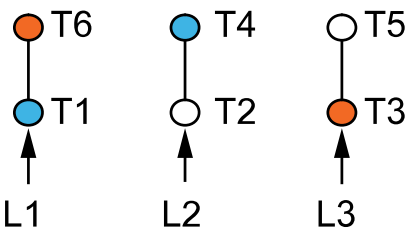
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Model **DPC0756F-TC**
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Wire	Color
T1, T4	Blue
T5, T2	White
T3, T6	Orange



SINGLE VOLTAGE

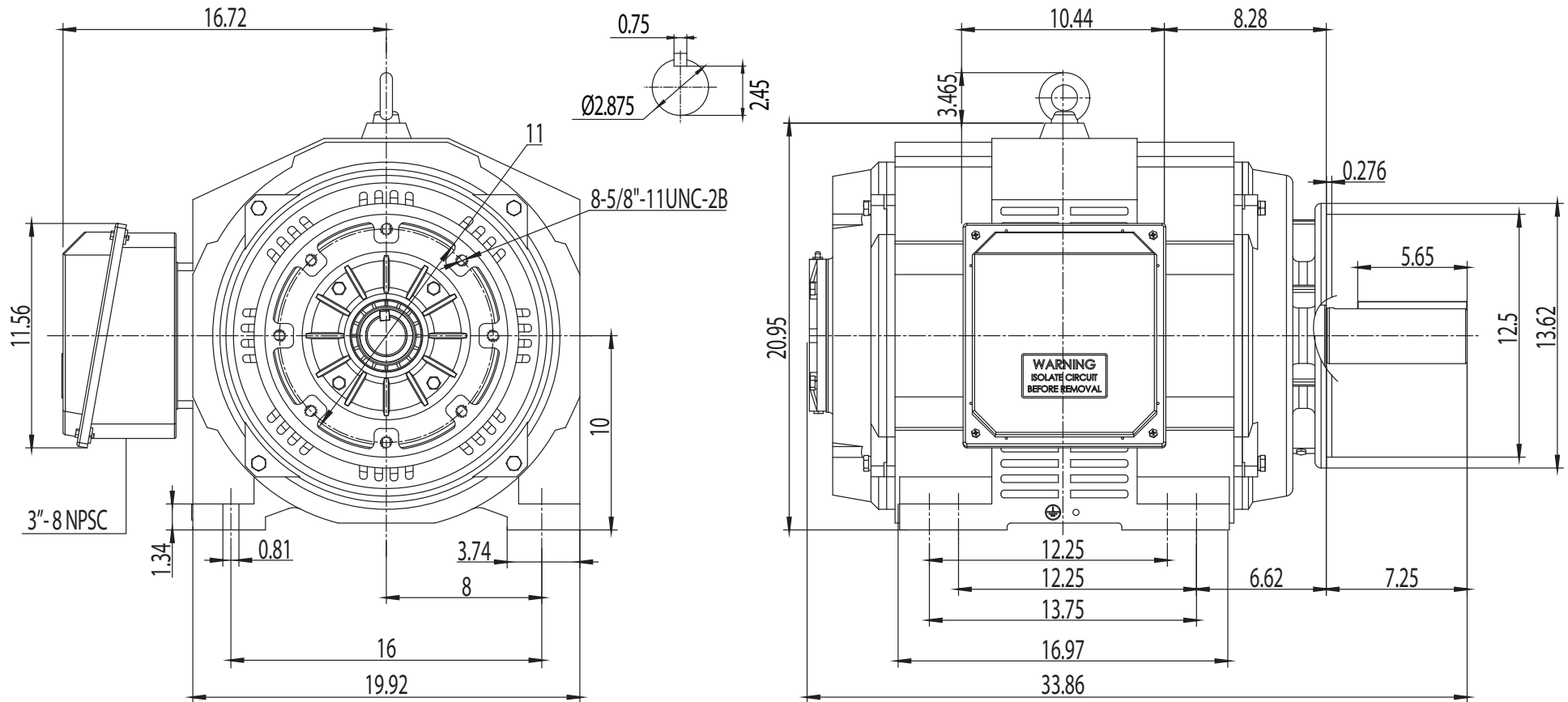
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



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

NEMA 3Ø D 6-Lead Single Voltage

ISSUED DATE	27/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	



NEMA Premium ODP 405TC

DRAWING NUMBER:

GR3-CI-DP-404(5)TC

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Cast Iron

ISSUED DATE

27/06/25

PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP