

NEMA

Model DPC0752D-TC
MFG PN: TDC 364TS75U2B

Model DPC0752D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC0752D-TC	75	3560	230/460	3	60	364TSC	Rigid/C-Flange	ODP

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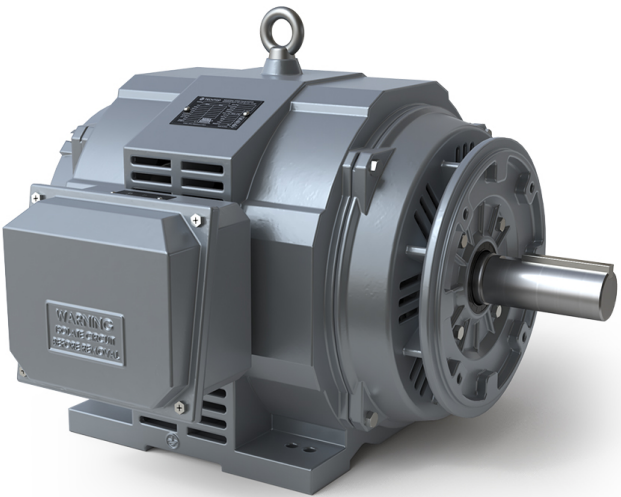
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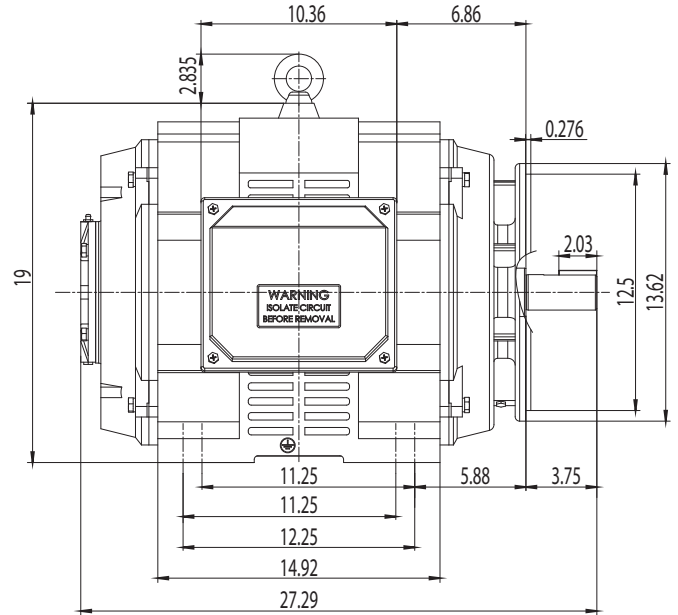
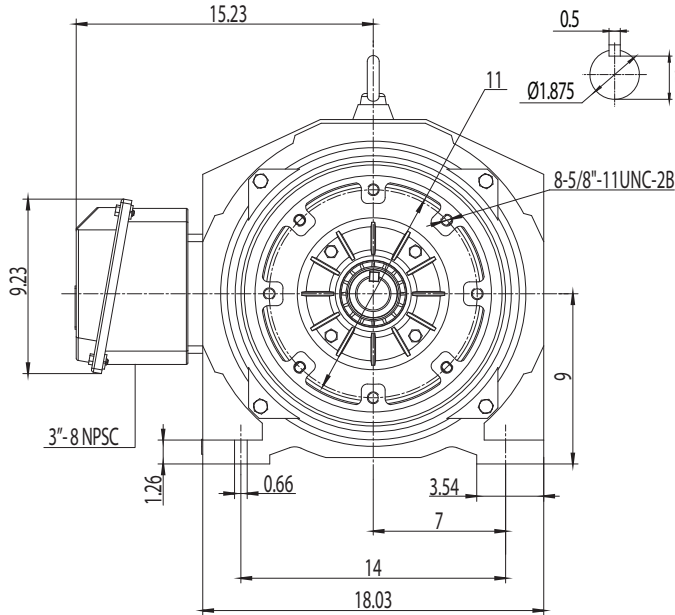
ELECTRICAL DATA		
Rated Motor Output Power	75	HP
	55	kW
Rated Motor Speed	3560	r/min 60Hz
	2950	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	166.73/83.37	A (I _n) @ 60Hz
	203.13/101.57	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	612.6	A (I _n) @ 60Hz
FI Current @ 208V	184.36	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	G	50Hz
Nominal Efficiency	93.6	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	12	8
Connection	DD/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	40.2	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	364TSC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	650 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	6313 C3	
Bearing ODE Side	6313 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	75
RPM	3560	2950
Voltage	230/460	190/380
Full Load Amps	166.73/83.37	203.13/101.57
Service Factor	1.15	1
KVA Code	J	G
Full Load Amps (208V)	184.36	-
Nominal Efficiency	93.6	93
Nominal Power Factor	0.9	0.9
Design	A	
Frame	364TSC	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6313 C3	
Opposite Drive End Bearing	6313 C3	
Weight (lbs)	650	

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
HP			
RPM			
VOLT			
FLA			
SF			
KVA CODE			
NOM.EFF			
USABLE AT 208V 60Hz	BEARING SIZE		
FLA	DE	ODE	
	GREASE: MOBIL POLYREX EM		
MFG PN		MFG DATE	
SER #		DESIGN	
FRAME		ENCL	
IP		DUTY	
INS CL		AMB	
WEIGHT		lbs	
MADE IN CHINA			

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

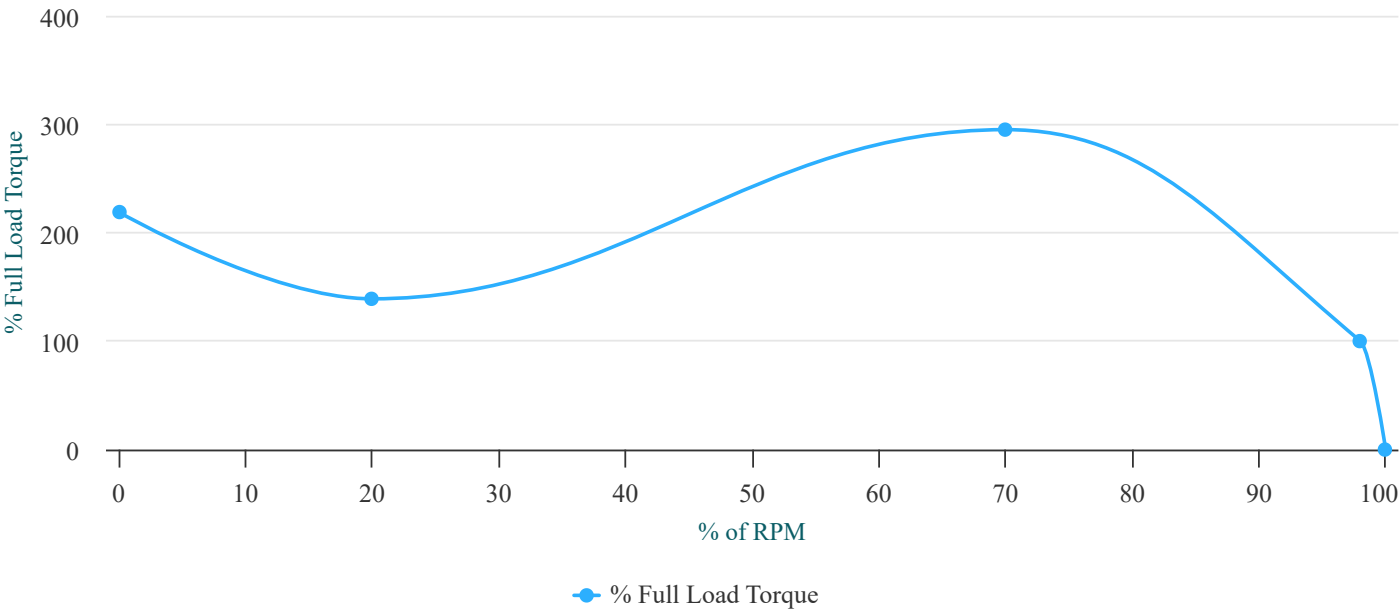
HAZARDOUS LOCATIONS	
Class / Division	-
Groups	-

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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	242.4	219	Start Configuration	DOL
Pull-Up Torque	153.9	139	Starting Current (A)	612.6
Breakdown Torque	326.6	295	No-Load Current (A)	23.4
Full Load Torque	110.7	100	No-Load Power Factor	-

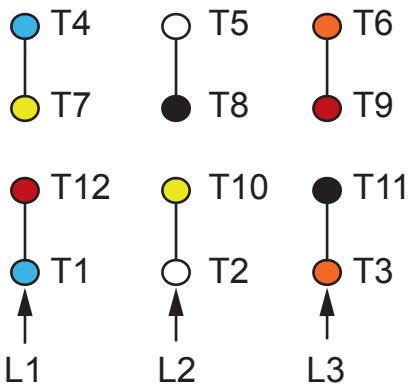
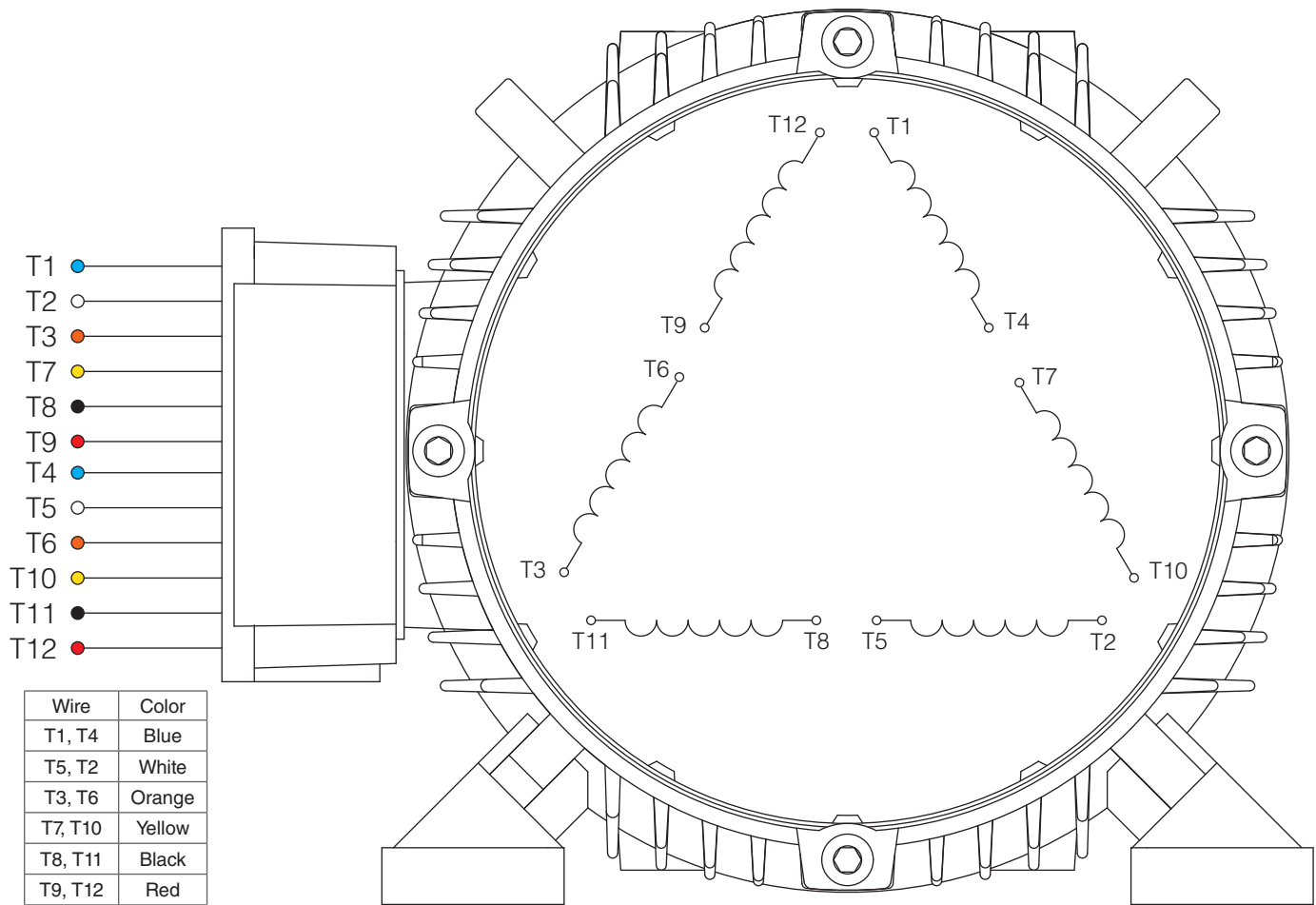
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	30.5	44.8	61.2	79.4	99	99
Efficiency (%)	88.9	92.9	93.8	93.7	93.3	93.3
Speed (r/min)	3592	3583	3574	3565	3554	3554
Power Factor (cosΦ)	0.61	0.8	0.87	0.89	0.9	0.9
Input Power (kW)	15.47	29.6	43.99	58.67	73.68	73.68

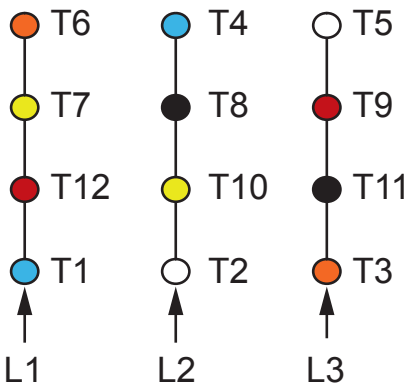
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HIGH VOLTAGE
(Δ)



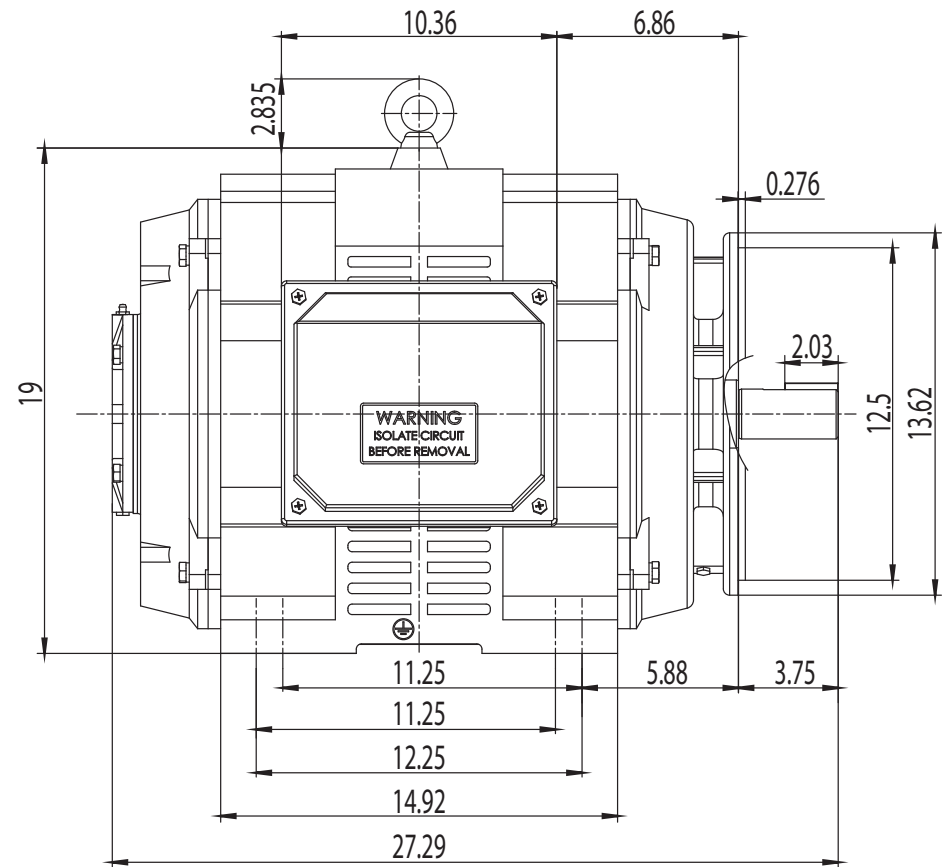
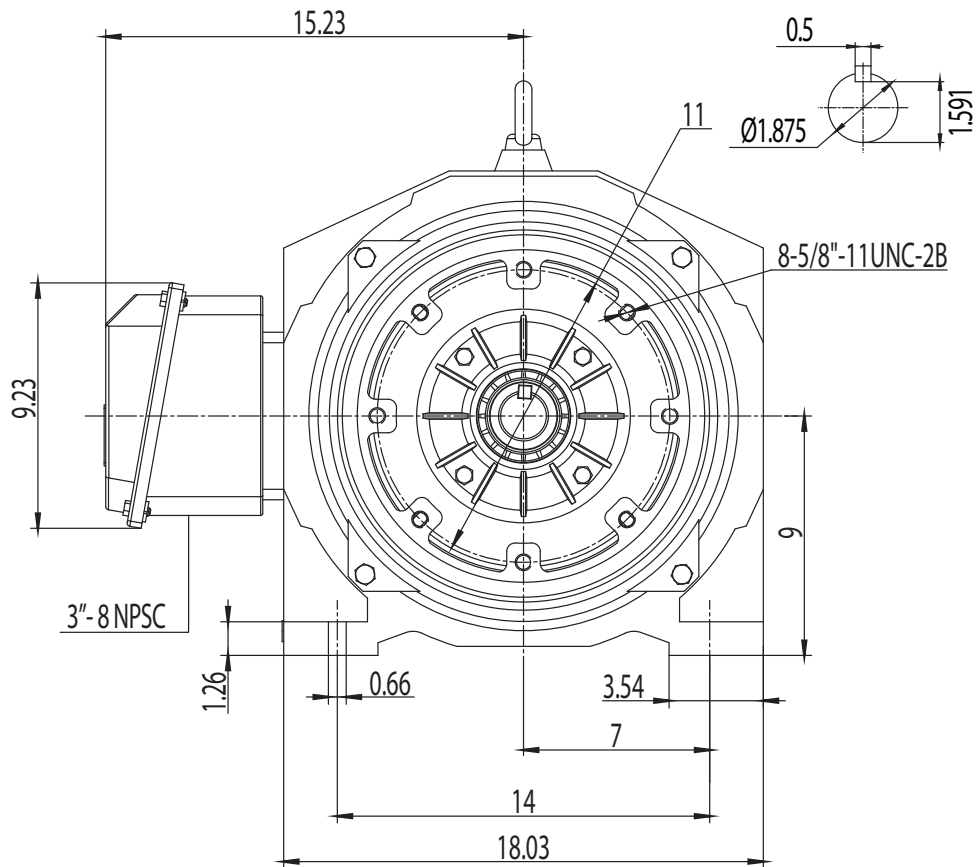
LOW VOLTAGE
(ΔΔ)

- 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



 TECHTOP <i>You can't top a Techtop.</i>		NEMA 3Ø DD/D 12-Lead Dual Voltage	
DRAWING NUMBER:	NEMA-3-12-DD-D	ISSUED DATE	27/06/25
CONNECTION:	DD/D		
NUMBER OF LEADS:	12	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
THERMAL PROTECTION:	-		

NEMA 3Ø DD/D 12-Lead Dual Voltage



NEMA Premium ODP 364TSC

DRAWING NUMBER:	GR3-CI-DP-364(5)TSC	ISSUED DATE	27/06/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
CASING MATERIAL:	Cast Iron		