

NEMA

Model DPC0506F-TC
MFG PN: TDC 365T50U6B

Model DPC0506F-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC0506F-TC	50	1185	575	3	60	365TC	Rigid/C-Flange	ODP

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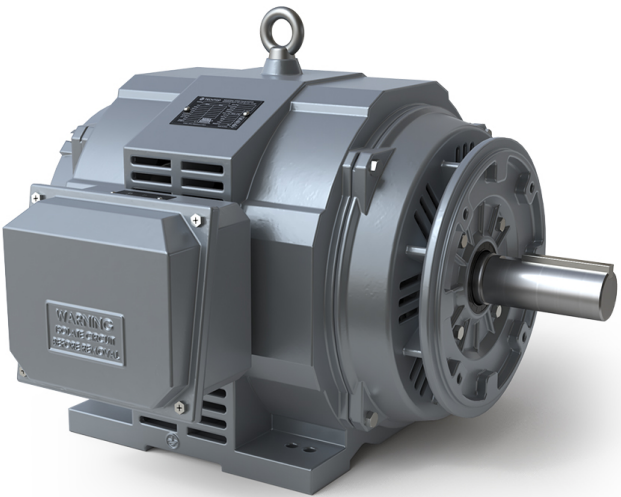
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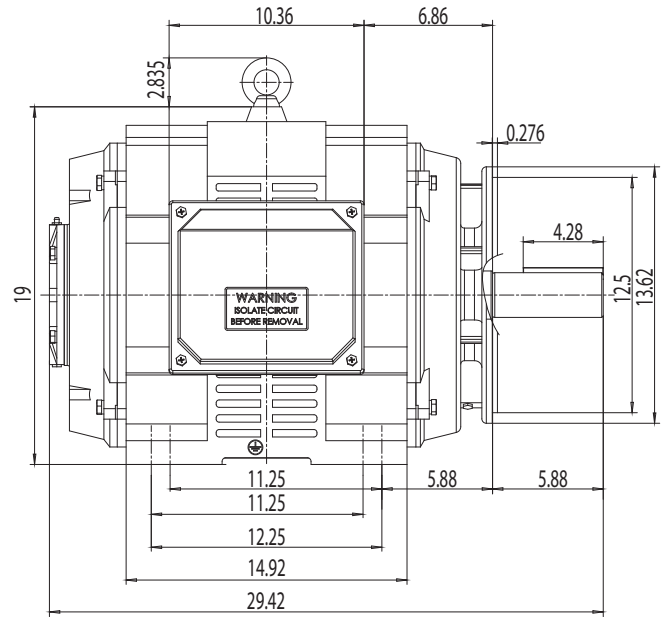
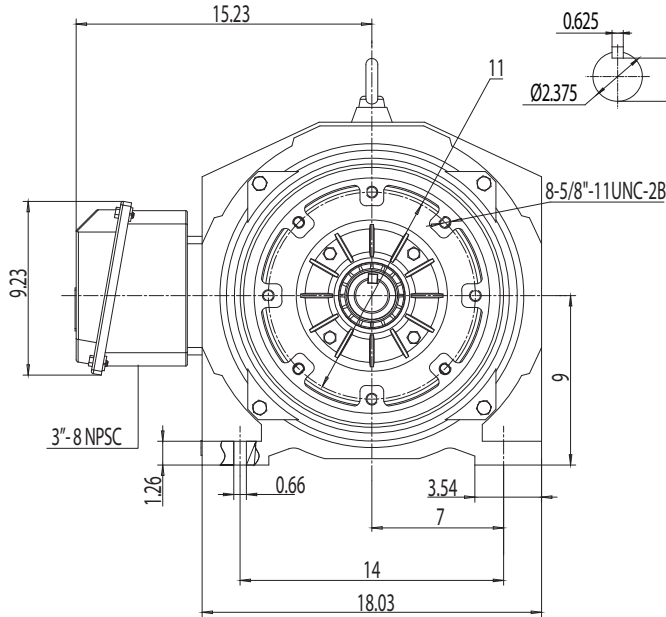
ELECTRICAL DATA		
Rated Motor Output Power	50	HP
	37.5	kW
Rated Motor Speed	1185	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	46.28	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	454.9	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	94.1	% @ 60Hz
Nominal Power Factor	0.86	cosΦ @ 60Hz
Leads (Qty, Size)	6	8
Connection	D	-
Coil Resistance	14.5	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	36.2	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	365TC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	782 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	6314 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	50	-
RPM	1185	-
Voltage	575	-
Full Load Amps	46.28	-
Service Factor	1.15	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	94.1	-
Nominal Power Factor	0.86	-
Design	A	
Frame	365TC	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6314 C3	
Opposite Drive End Bearing	6313 C3	
Weight (lbs)	782	

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

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

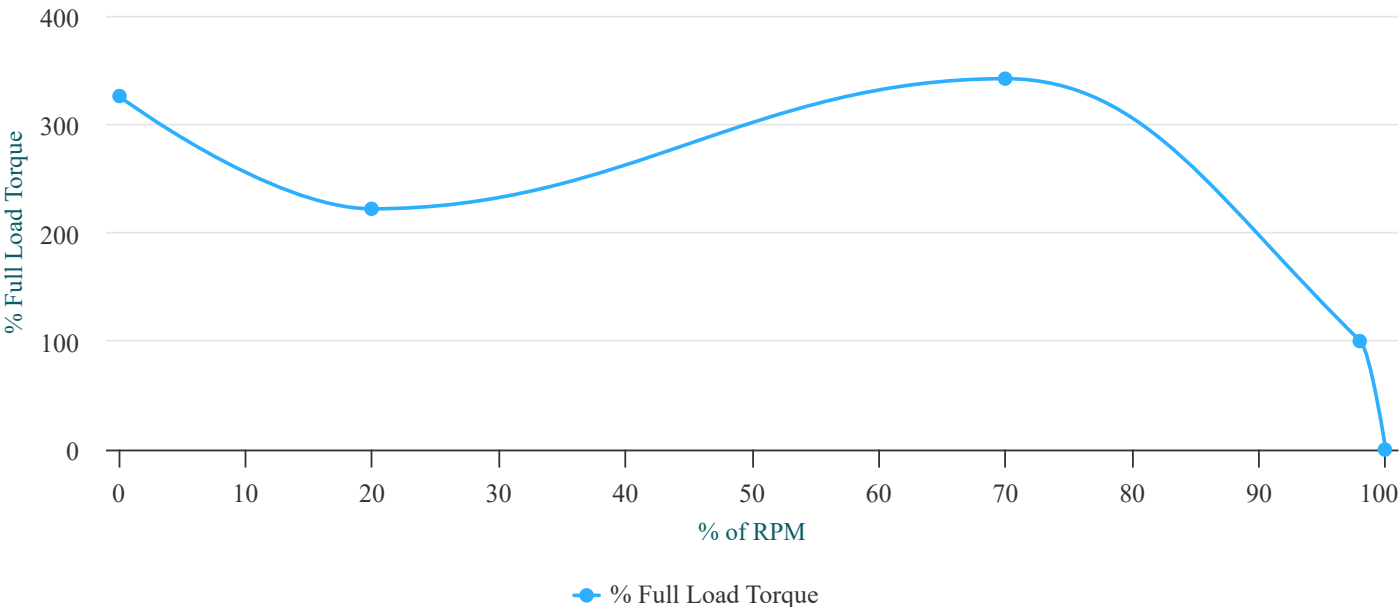
HAZARDOUS LOCATIONS	
Class / Division	-
Groups	-

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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	722.8	326	Start Configuration	DOL
Pull-Up Torque	492.2	222	Starting Current (A)	454.9
Breakdown Torque	758.2	342	No-Load Current (A)	22.4
Full Load Torque	221.7	100	No-Load Power Factor	-

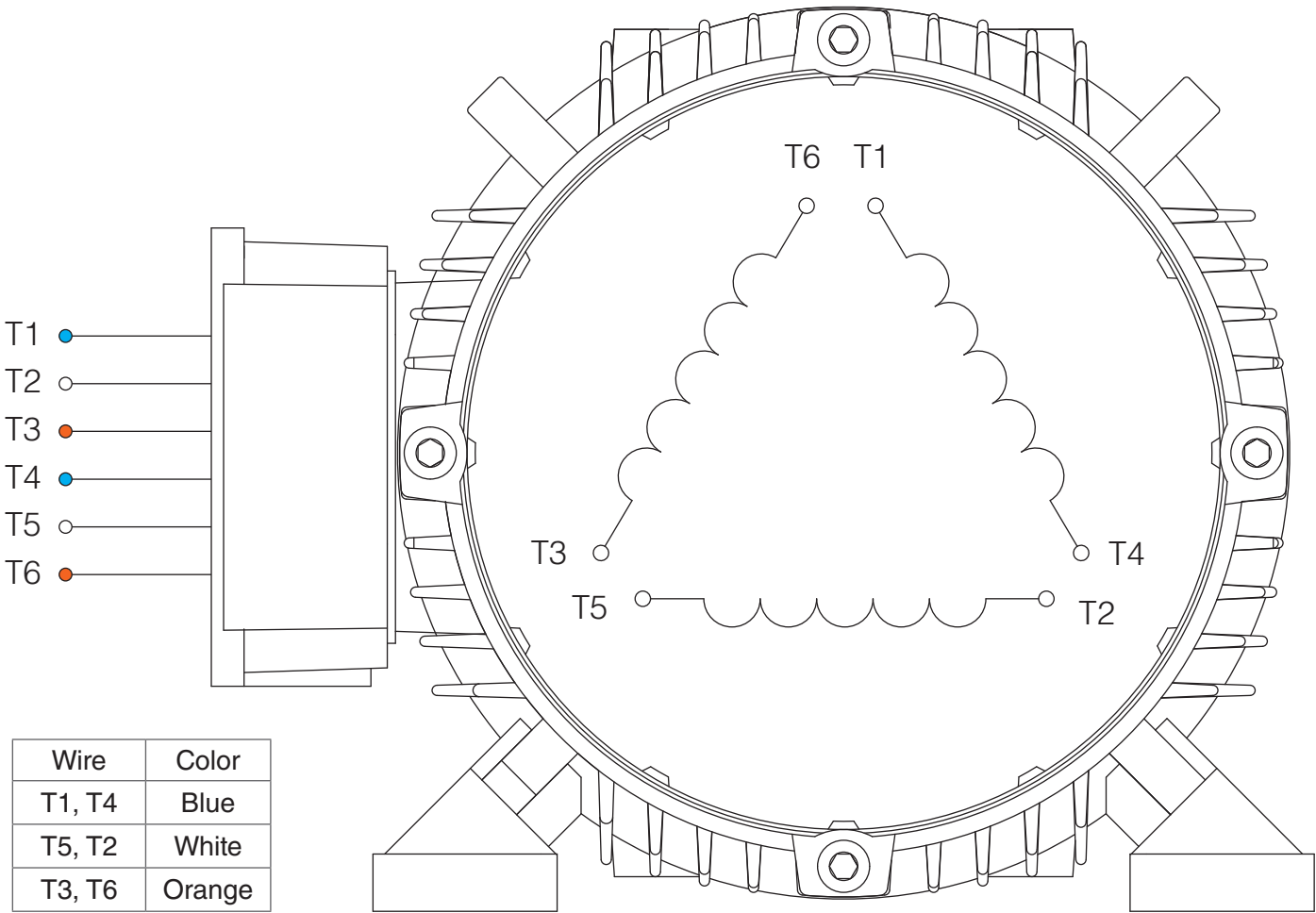
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	24.2	30.7	38.8	48.1	58.2	58.2
Efficiency (%)	90.4	94	94.8	94.8	94.5	94.5
Speed (r/min)	1197	1195	1192	1189	1186	1186
Power Factor (cosΦ)	0.43	0.64	0.76	0.82	0.84	0.84
Input Power (kW)	10.23	19.69	29.28	39.02	48.92	48.92

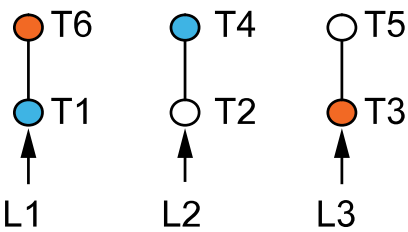
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Wire	Color
T1, T4	Blue
T5, T2	White
T3, T6	Orange



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



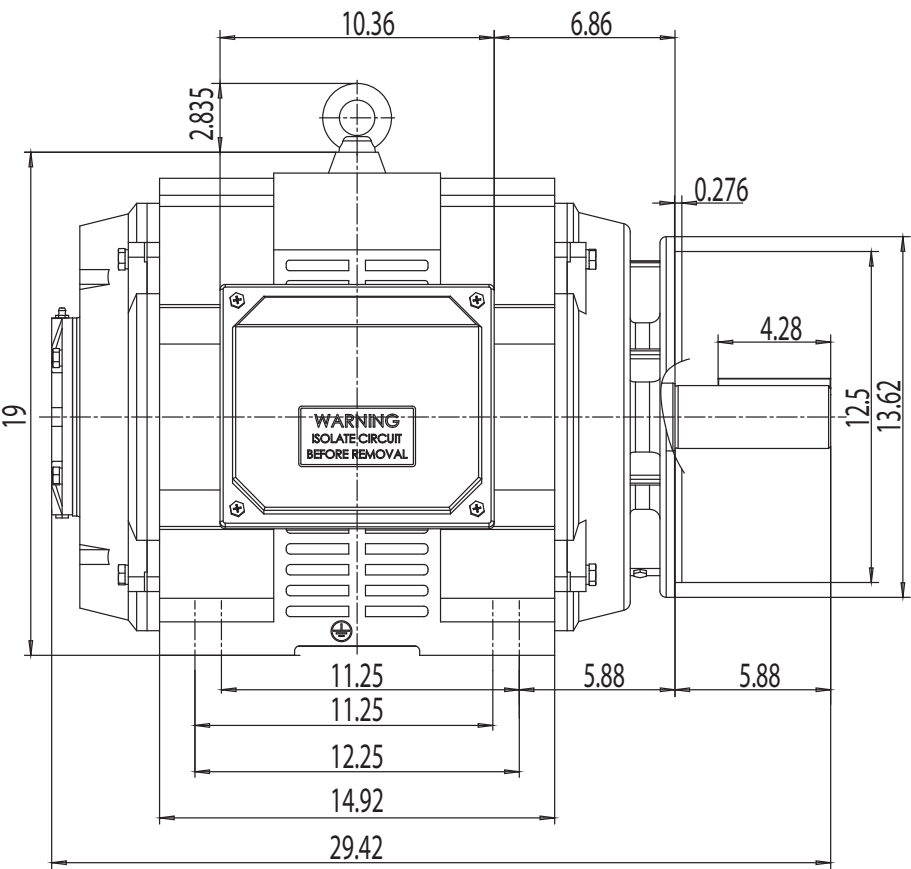
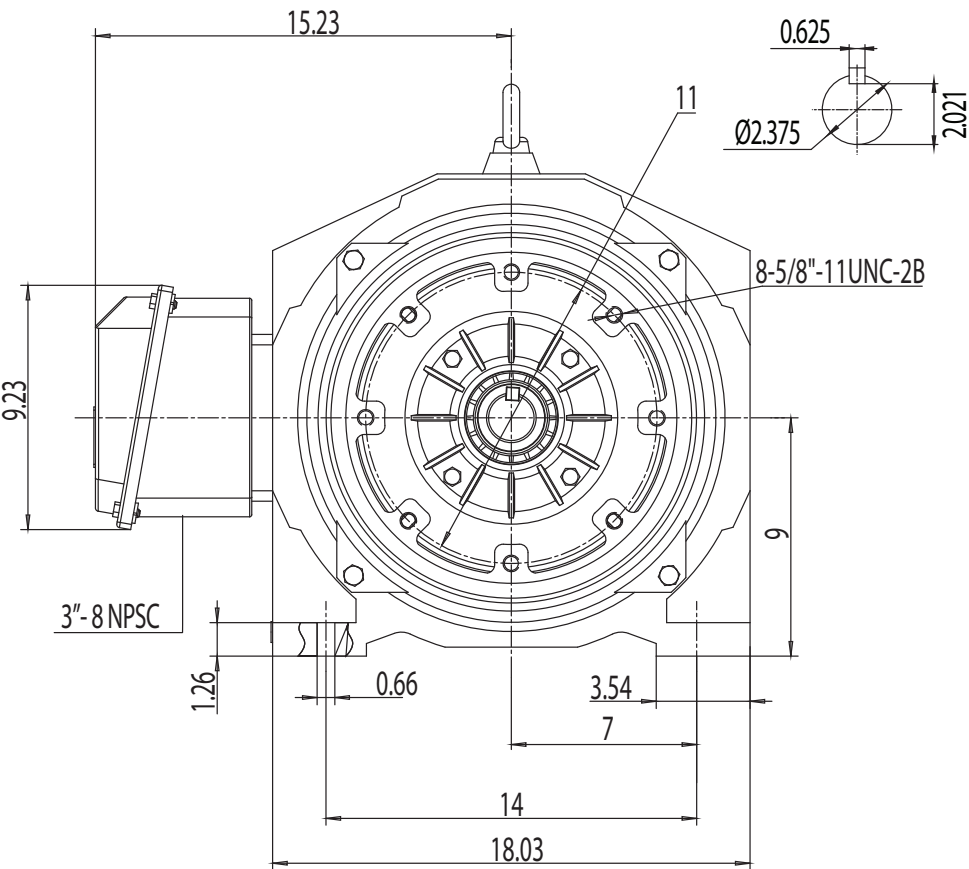
DRAWING NUMBER:	NEMA-3-6-D
CONNECTION:	D
NUMBER OF LEADS:	6
THERMAL PROTECTION:	-

NEMA 3Ø D 6-Lead Single Voltage

ISSUED DATE	23/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	



Model DPC0506F-TC
MFG PN: TDC 365T50U6B



NEMA Premium ODP 365TC

DRAWING NUMBER:

GR3-CI-DP-364(5)TC

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Cast Iron

ISSUED DATE

23/06/25

PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP