

NEMA

Model DPC1006F
MFG PN: TDC 444T100U6B

Model DPC1006F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC1006F	100	1190	575	3	60	444T	Rigid	ODP

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techttopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techttopcanada.com

Moncton

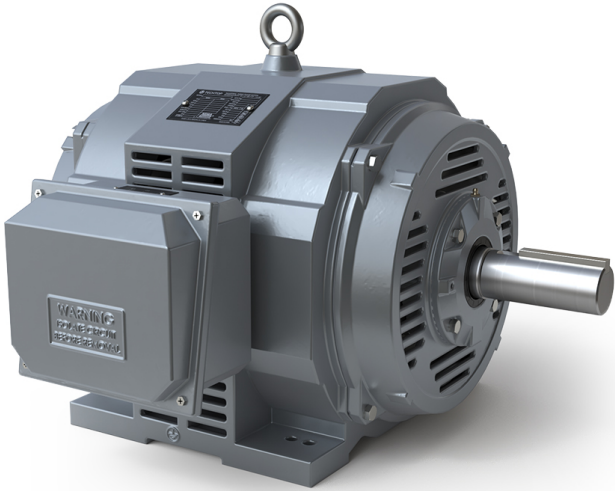
PHONE 506.386.5794
EMAIL infoNB@techttopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techttopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techttopcanada.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 DPC1006F
 MFG PN: TDC 444T100U6B

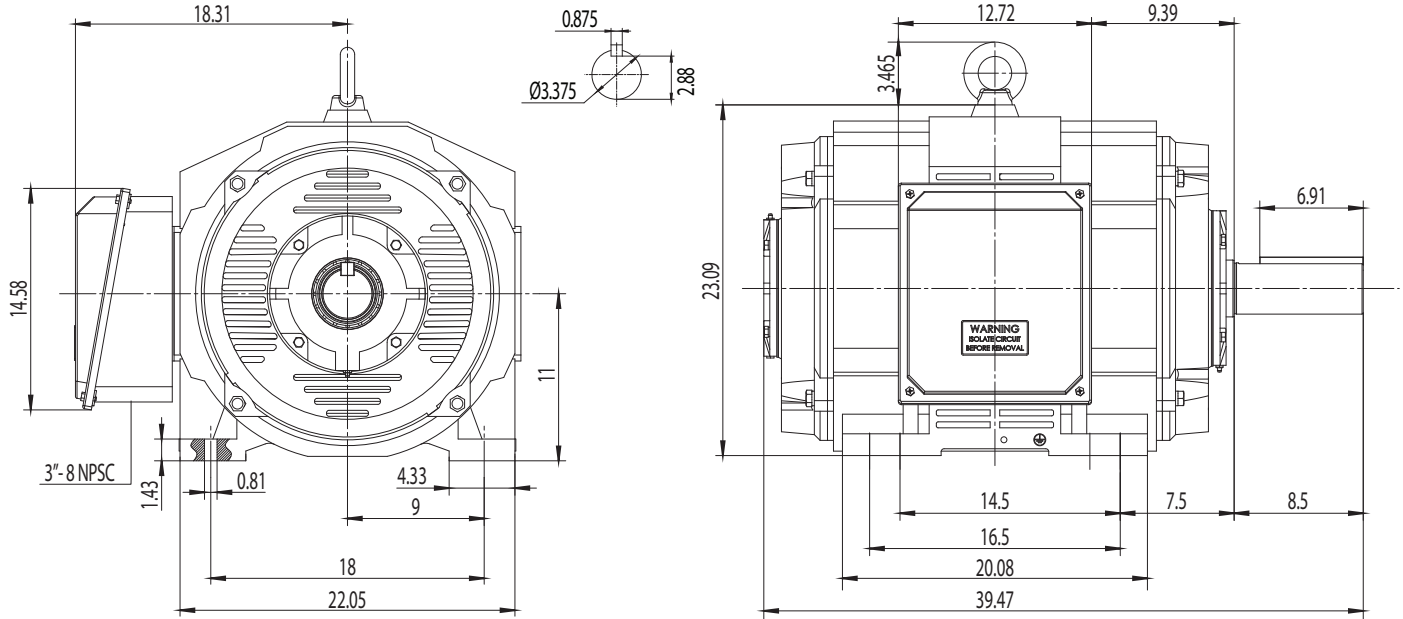
ELECTRICAL DATA		
Rated Motor Output Power	100	HP
	75	kW
Rated Motor Speed	1190	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	91.69	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	870.4	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	H	60Hz
	-	50Hz
Nominal Efficiency	95	% @ 60Hz
Nominal Power Factor	0.86	cosΦ @ 60Hz
Leads (Qty, Size)	6	4
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	34.5	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	444T	
Enclosure	ODP	
Mounting	Rigid	
Approximate Weight (lbs.)	1546 lbs.	
Casing Material / Fan Cover	Cast Iron	-
Shaft Material	4140	
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 319	
Bearing ODE Side	6316 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	-	-

Questions? Call 1.888.286.1820

NEMA

Model DPC1006F
 MFG PN: TDC 444T100U6B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	100	-
RPM	1190	-
Voltage	575	-
Full Load Amps	91.69	-
Service Factor	1.15	-
KVA Code	H	-
Full Load Amps (208V)	-	-
Nominal Efficiency	95	-
Nominal Power Factor	0.86	-
Design	A	
Frame	444T	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	NU 319	
Opposite Drive End Bearing	6316 C3	
Weight (lbs)	1546	

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			
MFG PN		MFG DATE	
SER #		DESIGN	
FRAME		ENCL	
IP		DUTY	
INS CL		AMB	
WEIGHT		lbs	
BEARING SIZE			
DE	ODE		
GREASE: MOBIL POLYREX EM			
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

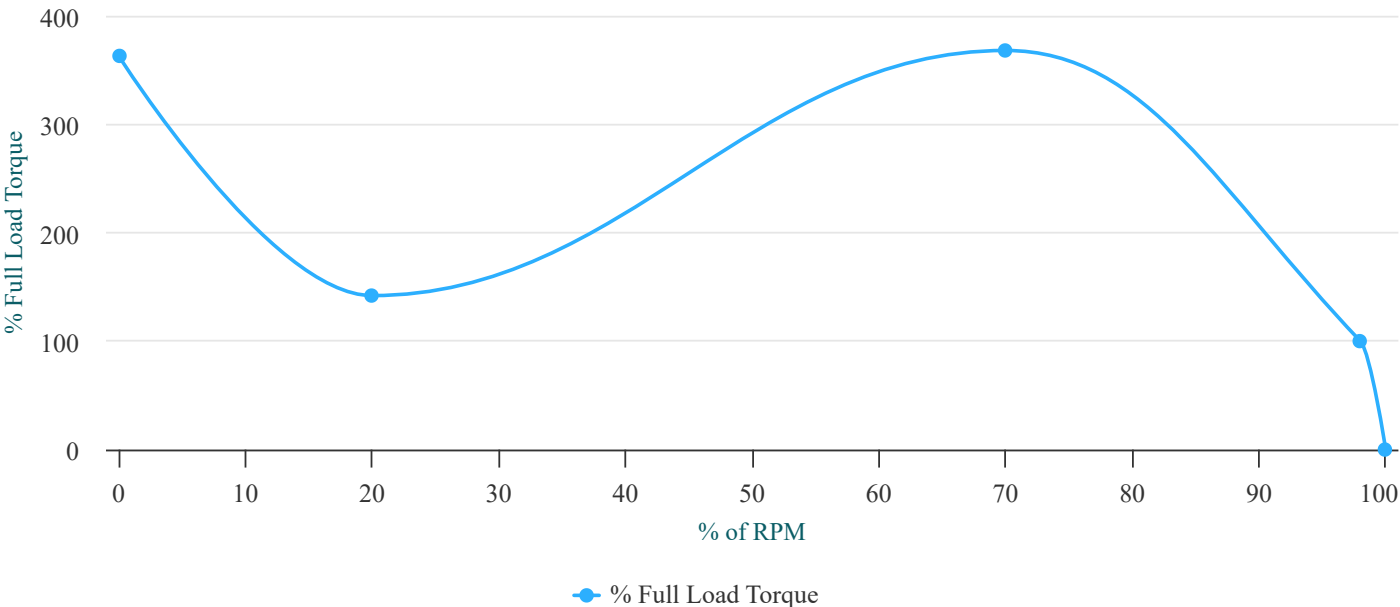
HAZARDOUS LOCATIONS	
Class / Division	-
Groups	-

Questions? Call 1.888.286.1820



Model DPC1006F
MFG PN: TDC 444T100U6B

Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	1602.8	363	Start Configuration	DOL
Pull-Up Torque	627	142	Starting Current (A)	870.4
Breakdown Torque	1624.8	368	No-Load Current (A)	32.2
Full Load Torque	441.5	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)	38.8	53.8	72.1	92.8	115.3	115.3
Efficiency (%)	92.2	95	95.5	95.4	95.1	95.1
Speed (r/min)	1198	1197	1195	1193	1191	1191
Power Factor (cosΦ)	0.53	0.74	0.82	0.85	0.86	0.86
Input Power (kW)	20.34	39.48	58.88	78.59	98.63	98.63

Questions? Call 1.888.286.1820



- 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



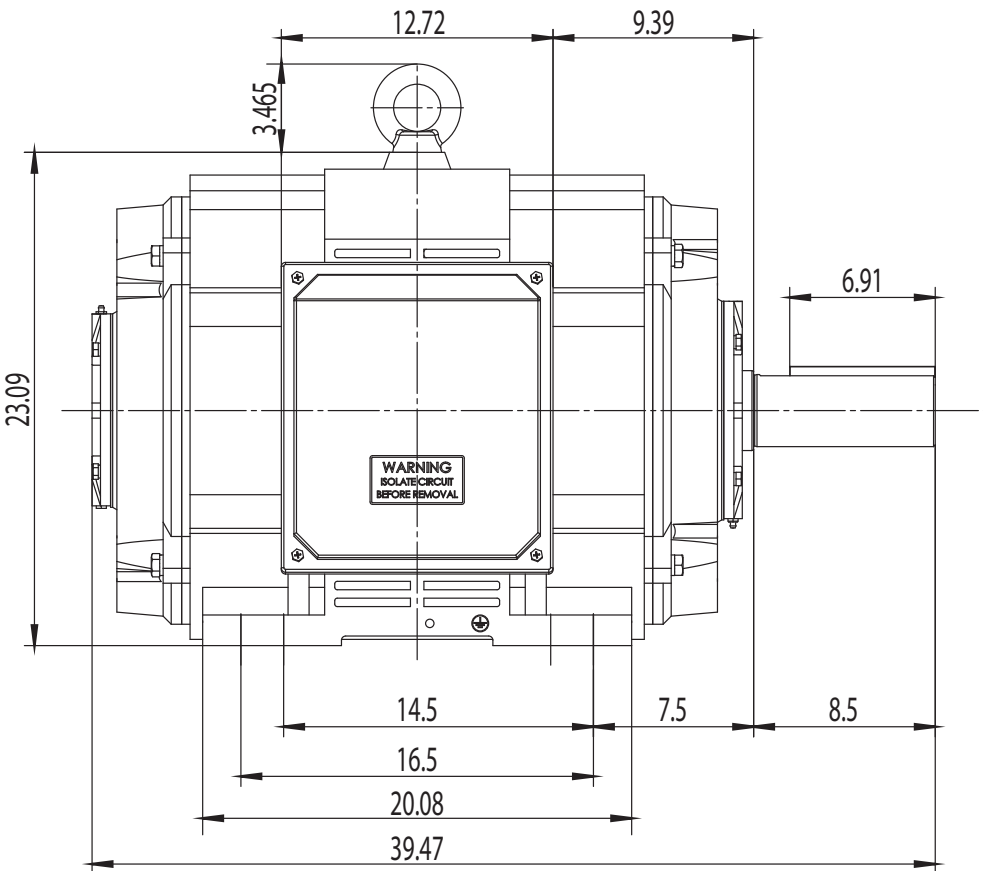
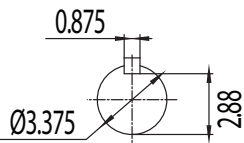
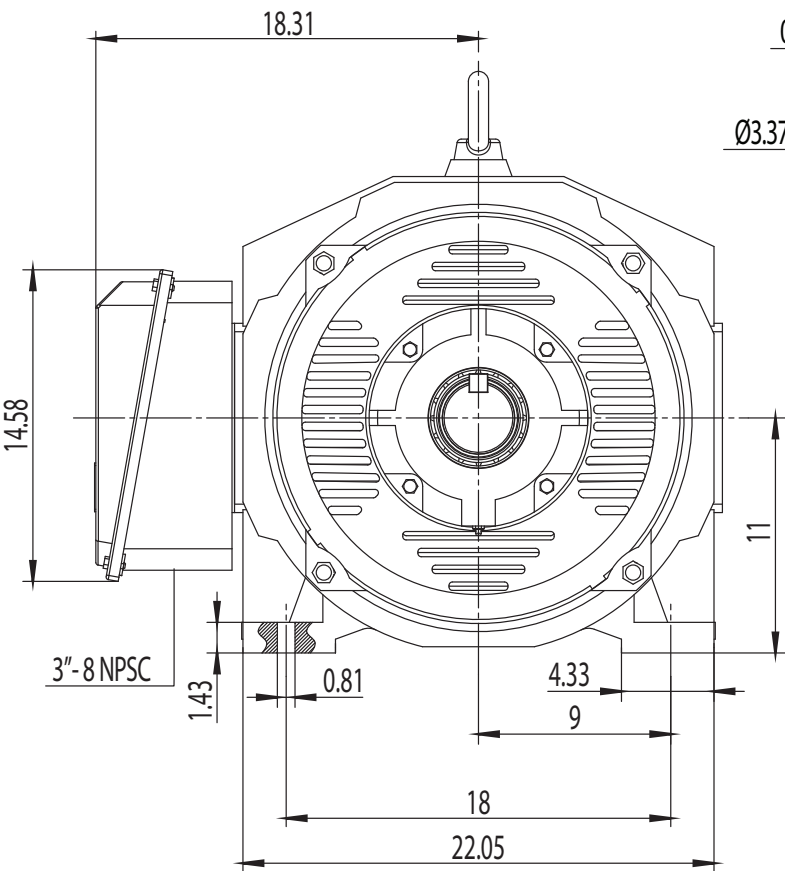
DRAWING NUMBER:	NEMA-3-6-D
CONNECTION:	D
NUMBER OF LEADS:	6
THERMAL PROTECTION:	-

NEMA 3Ø D 6-Lead Single Voltage

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



Model DPC1006F
MFG PN: TDC 444T100U6B



NEMA Premium ODP 444T

DRAWING NUMBER:	GR3-CI-DP-444(5)T
DIMENSIONS:	Inches
MOUNTING:	Rigid
CASING MATERIAL:	Cast Iron

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