

NEMA

Model DPC2504F
MFG PN: TDC 447T250U4B

Model DPC2504F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC2504F	250	1780	575	3	60	447T	Rigid	ODP

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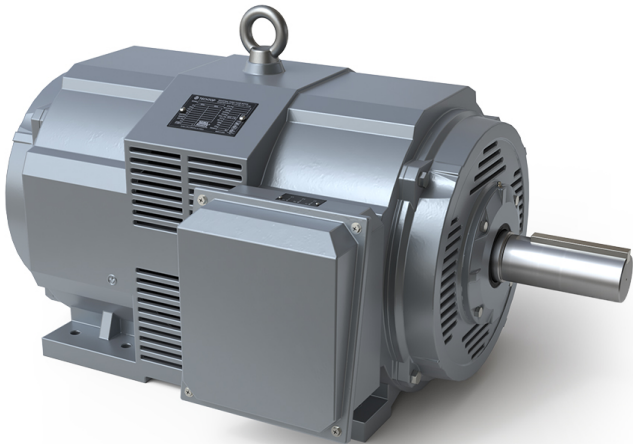
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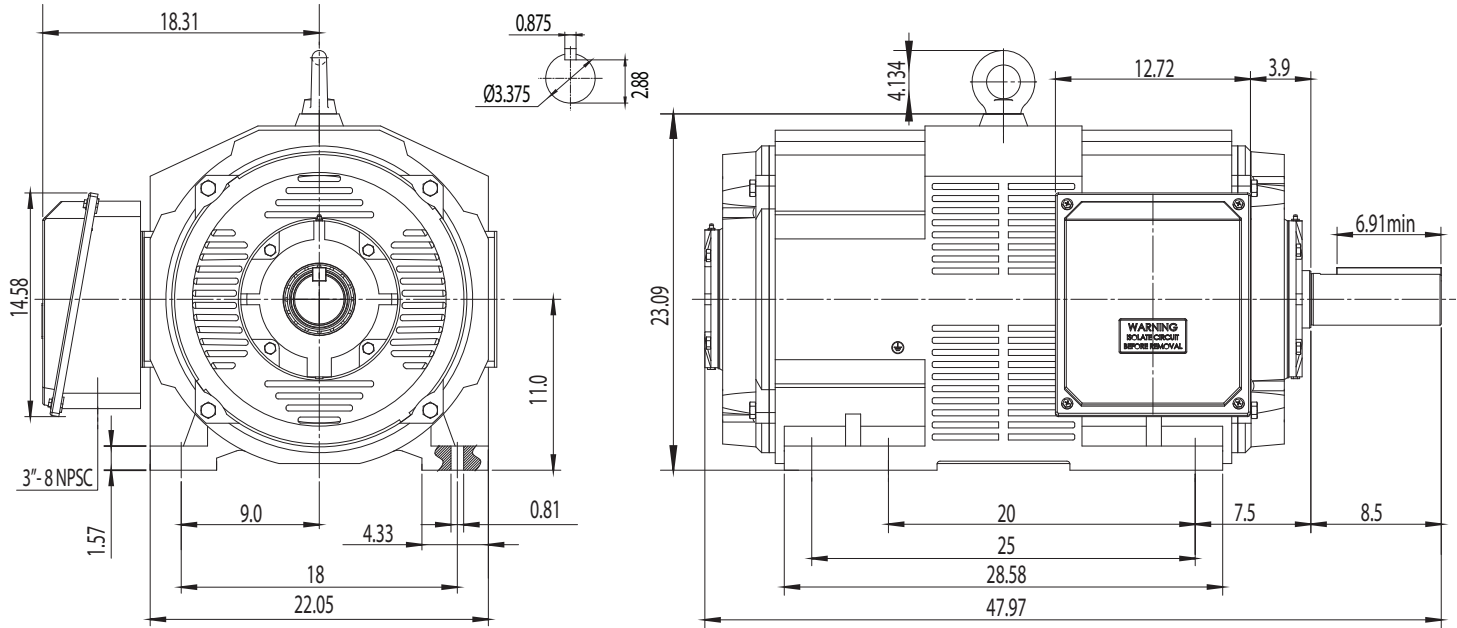
ELECTRICAL DATA		
Rated Motor Output Power	250	HP
	185	kW
Rated Motor Speed	1780	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	217.20	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	2024	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	H	60Hz
	-	50Hz
Nominal Efficiency	95.8	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	6	Ø
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	50.7	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	447T	
Enclosure	ODP	
Mounting	Rigid	
Approximate Weight (lbs.)	1852 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	6319 C3	
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	-	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	250	-
RPM	1780	-
Voltage	575	-
Full Load Amps	217.20	-
Service Factor	1.15	-
KVA Code	H	-
Full Load Amps (208V)	-	-
Nominal Efficiency	95.8	-
Nominal Power Factor	0.9	-
Design	A	
Frame	447T	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6319 C3	
Opposite Drive End Bearing	6316 C3	
Weight (lbs)	1852	

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

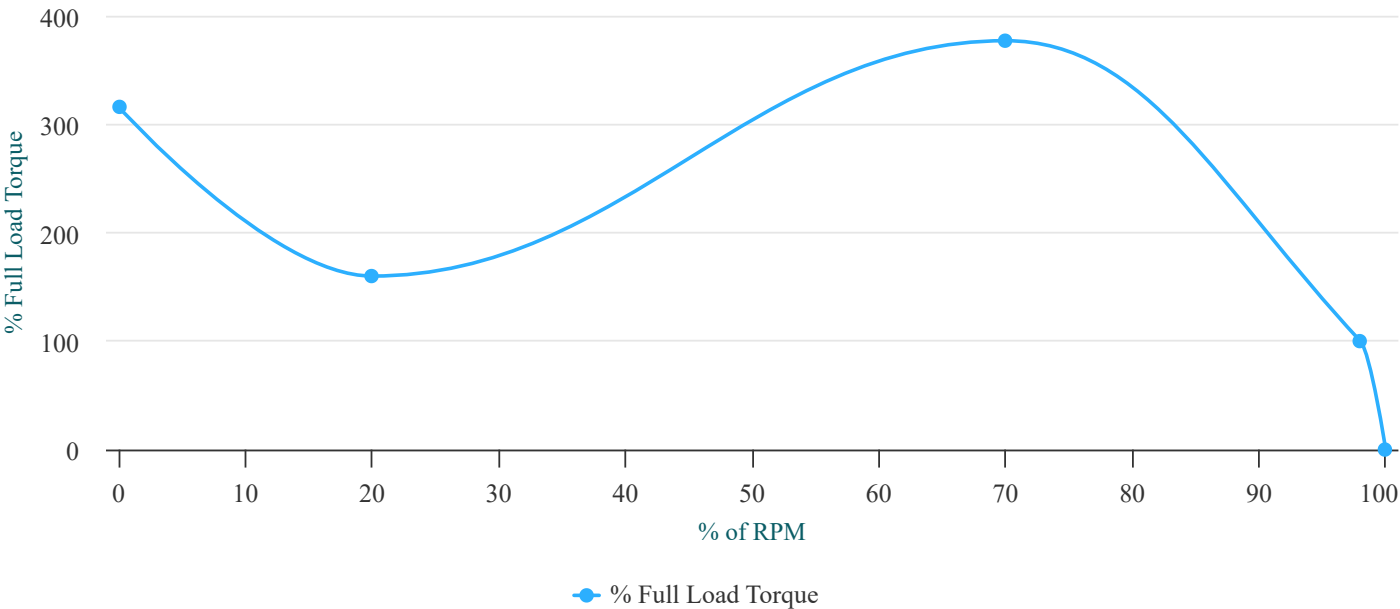
HAZARDOUS LOCATIONS	
Class / Division	-
Groups	-

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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	2331.9	316	Start Configuration	DOL
Pull-Up Torque	1180.7	160	Starting Current (A)	2024
Breakdown Torque	2782.1	377	No-Load Current (A)	83.8
Full Load Torque	738	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)	98.2	133.1	176.3	225.3	277.9	277.9
Efficiency (%)	92.7	95.3	95.9	95.8	95.5	95.5
Speed (r/min)	1797	1794	1792	1789	1785	1785
Power Factor (cosΦ)	0.51	0.73	0.82	0.86	0.88	0.88
Input Power (kW)	49.91	97.03	144.74	193.13	242.24	242.24

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- 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	30/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	

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NEMA Premium ODP 447T

DRAWING NUMBER:	GR3-CI-DP-447(9)T	ISSUED DATE	30/06/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
CASING MATERIAL:	Cast Iron		