

NEMA

Model DPC1252ES-TC
MFG PN: TDC 404TS125U2B

Model DPC1252ES-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC1252ES-TC	125	3570	460	3	60	404TSC	Rigid/C-Flange	ODP

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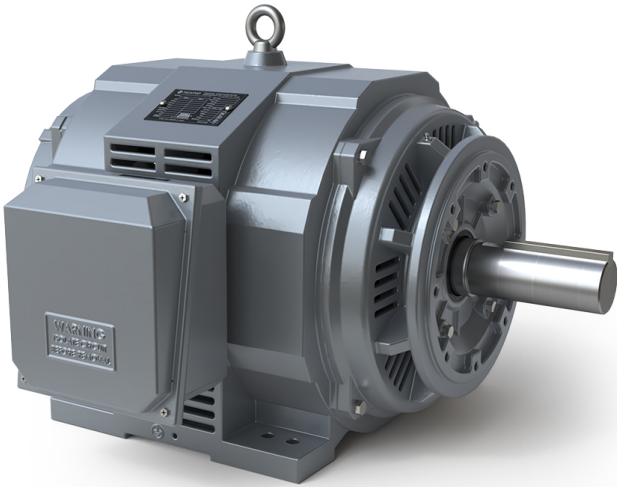
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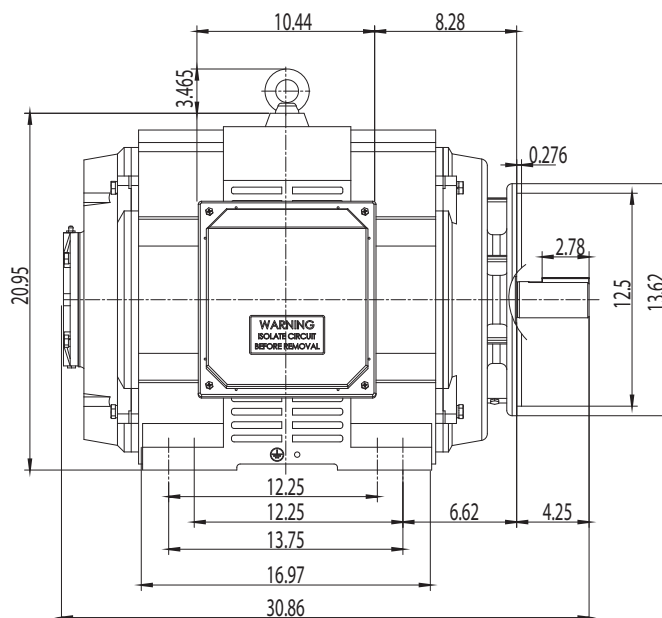
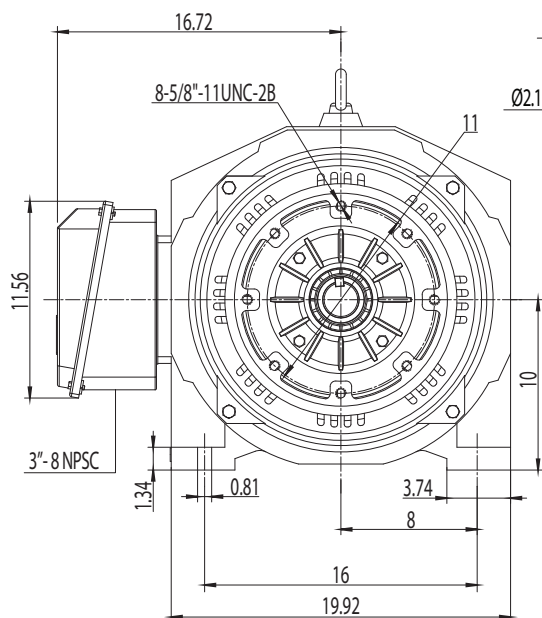
ELECTRICAL DATA		
Rated Motor Output Power	125	HP
	90	kW
Rated Motor Speed	3570	r/min 60Hz
	2955	r/min 50Hz
Rated Motor Voltage (+/-10%)	460	V/60Hz
	380	V/50Hz
Rated Motor Current	138.20	A (I _n) @ 60Hz
	169.27	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	1040	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	G	50Hz
Nominal Efficiency	94.1	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	6	2
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	32.7	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	404TSC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	931 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	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	125	125
RPM	3570	2955
Voltage	460	380
Full Load Amps	138.20	169.27
Service Factor	1.15	1
KVA Code	J	G
Full Load Amps (208V)	-	-
Nominal Efficiency	94.1	93
Nominal Power Factor	0.9	0.9
Design	A	
Frame	404TSC	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6314 C3	
Opposite Drive End Bearing	6314 C3	
Weight (lbs)	931	

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	
USABLE AT 208V 60Hz		DUTY	
FLA		INS CL	
BEARING SIZE		AMB	
DE	ODE	WEIGHT	lbs
GREASE: MOBIL POLYREX EM			
MADE IN CHINA			

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

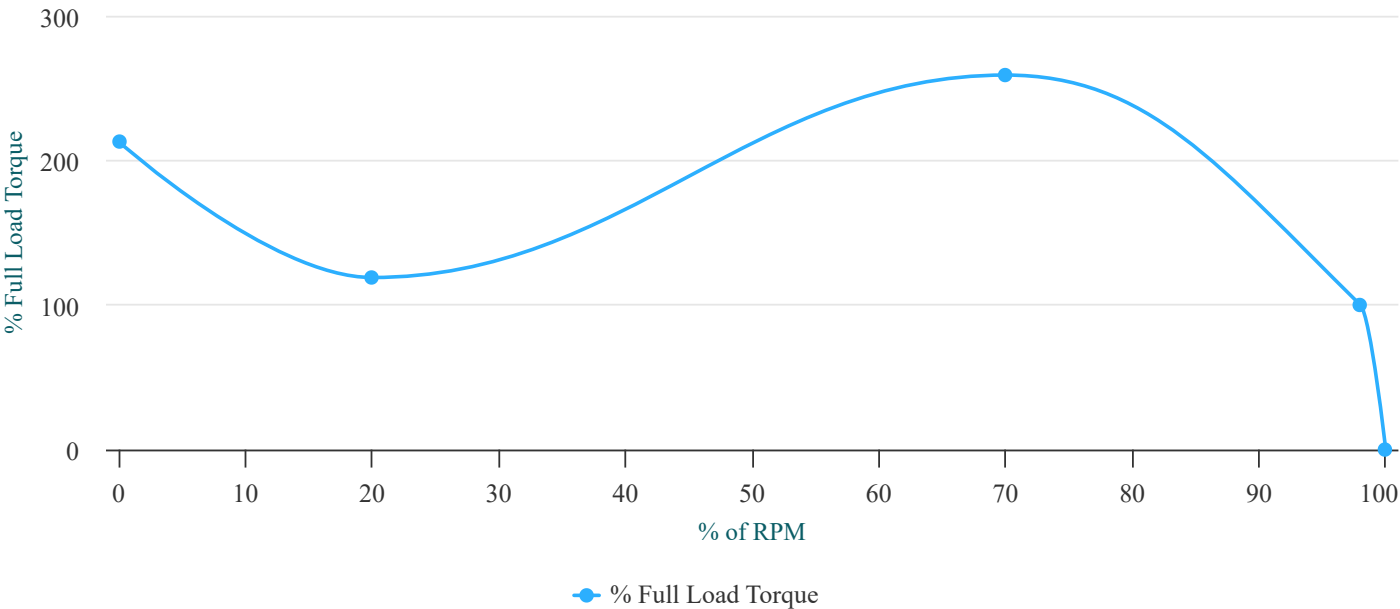
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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	391.9	213	Start Configuration	DOL
Pull-Up Torque	218.9	119	Starting Current (A)	1040
Breakdown Torque	476.5	259	No-Load Current (A)	43.3
Full Load Torque	184	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)	55	80.1	109.4	141.9	177.1	177.1
Efficiency (%)	90.2	93.7	94.4	94.3	93.8	93.8
Speed (r/min)	3592	3584	3575	3566	3556	3556
Power Factor (cosΦ)	0.59	0.78	0.85	0.87	0.88	0.88
Input Power (kW)	25.78	49.63	73.91	98.66	123.94	123.94

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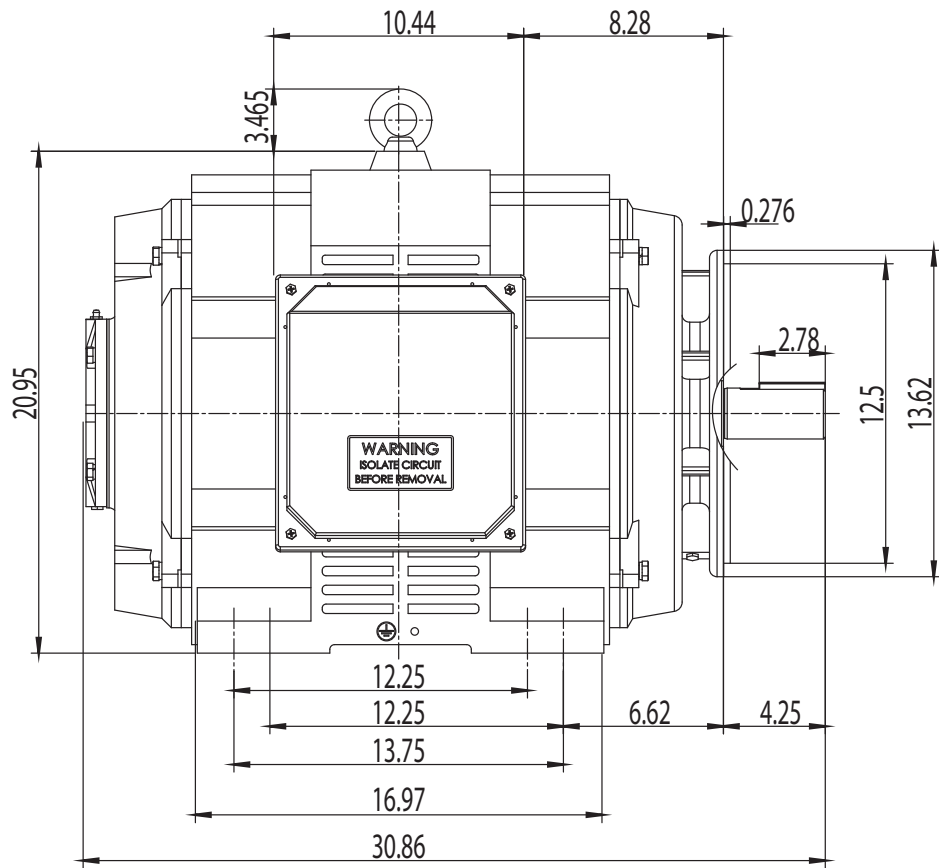
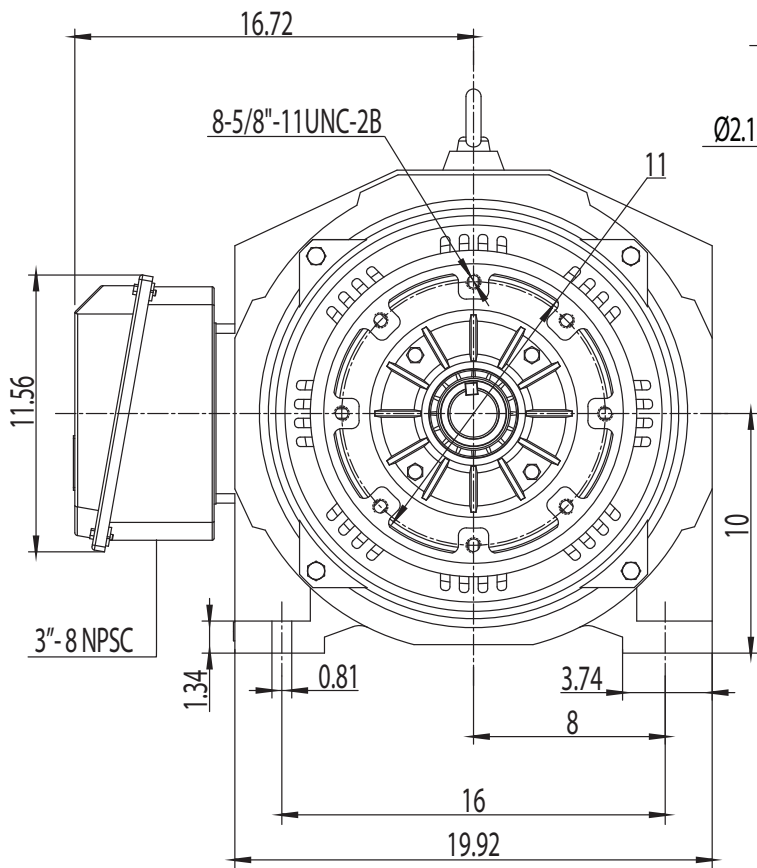
- NOTES:
1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 4. LEADS MUST BE NUMBERED AND COLORED 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	27/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	



NEMA Premium ODP 404TSC

DRAWING NUMBER:

GR3-CI-DP-404(5)TSC

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Cast Iron

ISSUED DATE

27/06/25

PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP