

NEMA

Model DPA0502F
MFG PN: TDA 324TS50U2B

Model DPA0502F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPA0502F	50	3560	575	3	60	324TS	Rigid	ODP

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Moncton

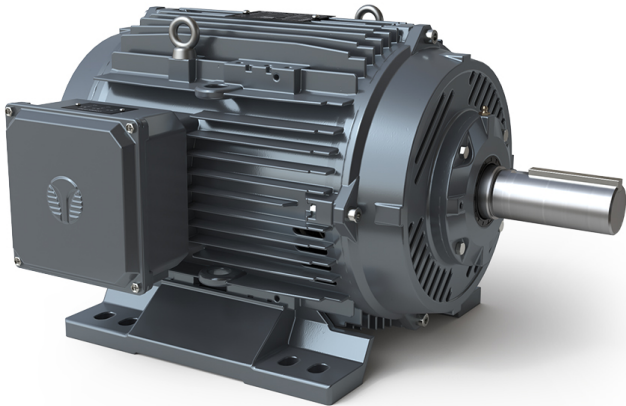
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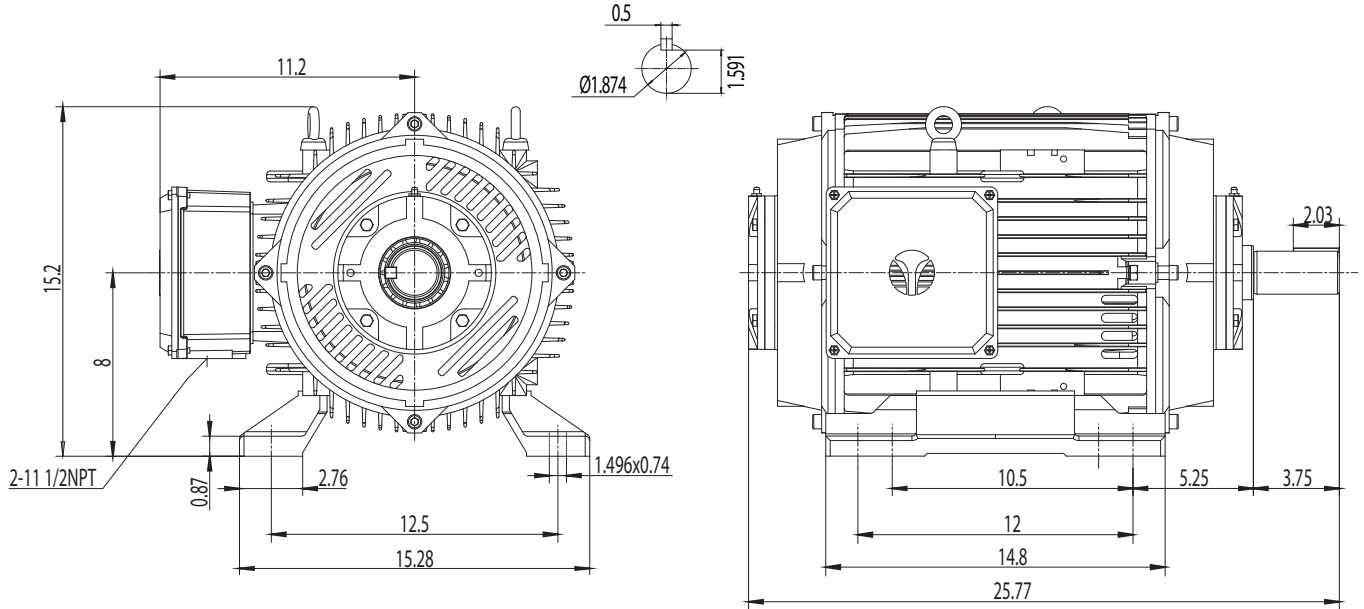
ELECTRICAL DATA		
Rated Motor Output Power	50	HP
	37.5	kW
Rated Motor Speed	3560	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	45.77	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	387.84	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	J	60Hz
	-	50Hz
Nominal Efficiency	93	% @ 60Hz
Nominal Power Factor	0.88	cosΦ @ 60Hz
Leads (Qty, Size)	6	10
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	62.1	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	324TS	
Enclosure	ODP	
Mounting	Rigid	
Approximate Weight (lbs.)	391 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	B	
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	YES	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6312 C3	
Bearing ODE Side	6312 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	3560	-
Voltage	575	-
Full Load Amps	45.77	-
Service Factor	1.25	-
KVA Code	J	-
Full Load Amps (208V)	-	-
Nominal Efficiency	93	-
Nominal Power Factor	0.88	-
Design	B	
Frame	324TS	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6312 C3	
Opposite Drive End Bearing	6312 C3	
Weight (lbs)	391	

NAMEPLATE LAYOUT

TECHTOP INDUSTRIAL THREE PHASE MOTOR
 INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF

MODEL	60Hz	50Hz	MFG PN	
HP			MFG DATE	
RPM			SER #	
VOLT			DESIGN	
FLA			FRAME	
SF			ENCL / IP	ODP 23
KVA CODE			DUTY	
NOM.EFF			INS CL	
EFF 75%			AMB	
PF			DE	
USABLE AT 208V			ODE	
	A		WEIGHT	lbs

NEMA Premium
 TECHTOPCANADA.COM

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

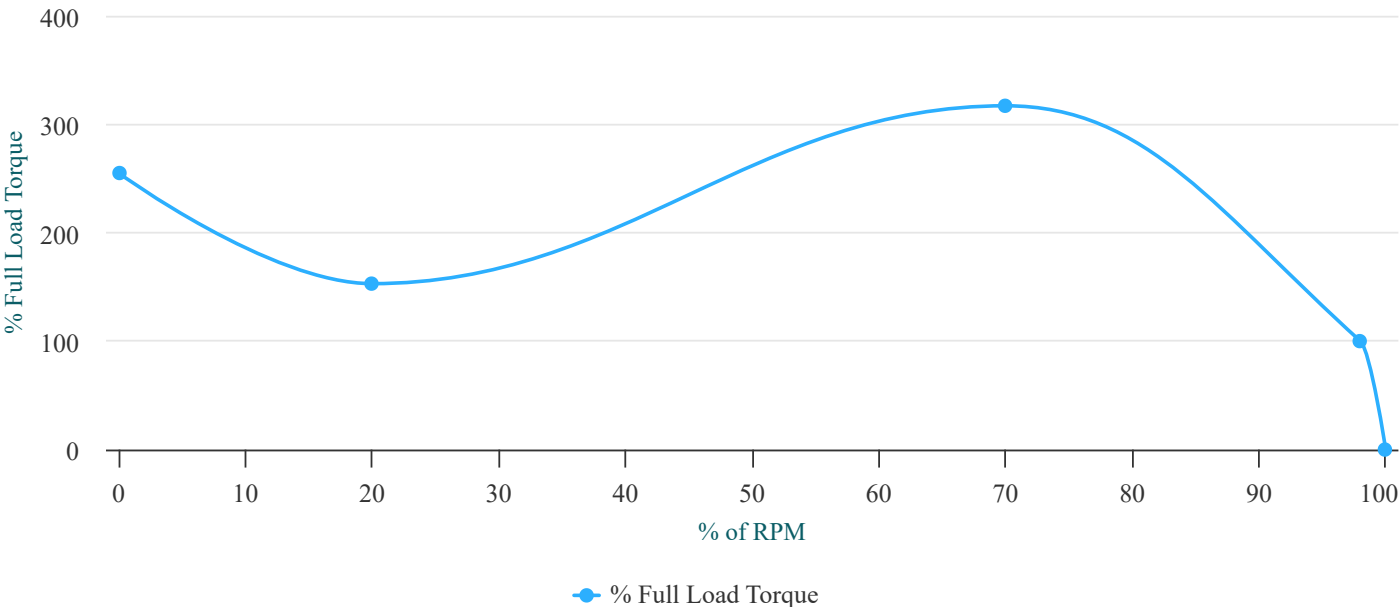
HAZARDOUS LOCATIONS	
Class / Division	-
Groups	-

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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	73.8	255	Start Configuration	DOL
Pull-Up Torque	112.9	153	Starting Current (A)	387.84
Breakdown Torque	234	317	No-Load Current (A)	12.7
Full Load Torque	188.2	100	No-Load Power Factor	-

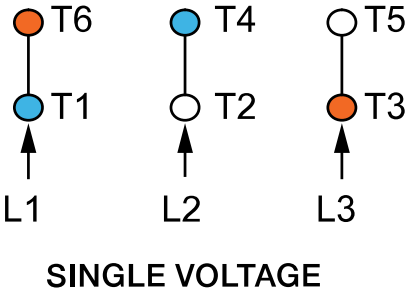
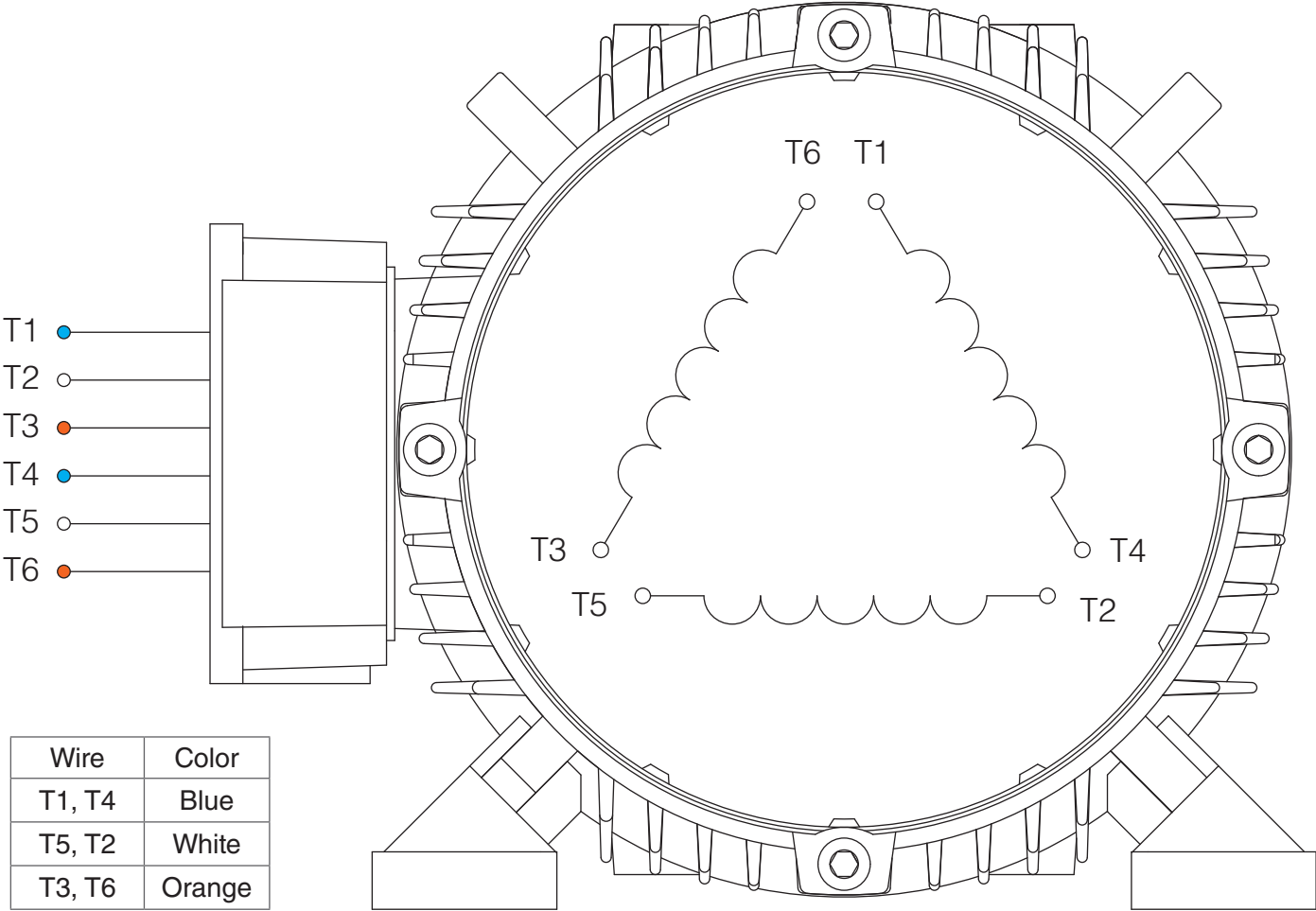
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	16.8	24.8	34.1	44.5	55.7	55.7
Efficiency (%)	89.6	92.9	93.3	92.8	92	92
Speed (r/min)	3590	3580	3568	3556	3543	3543
Power Factor (cosΦ)	0.62	0.81	0.88	0.9	0.91	0.91
Input Power (kW)	10.33	19.92	29.75	39.86	50.26	50.26

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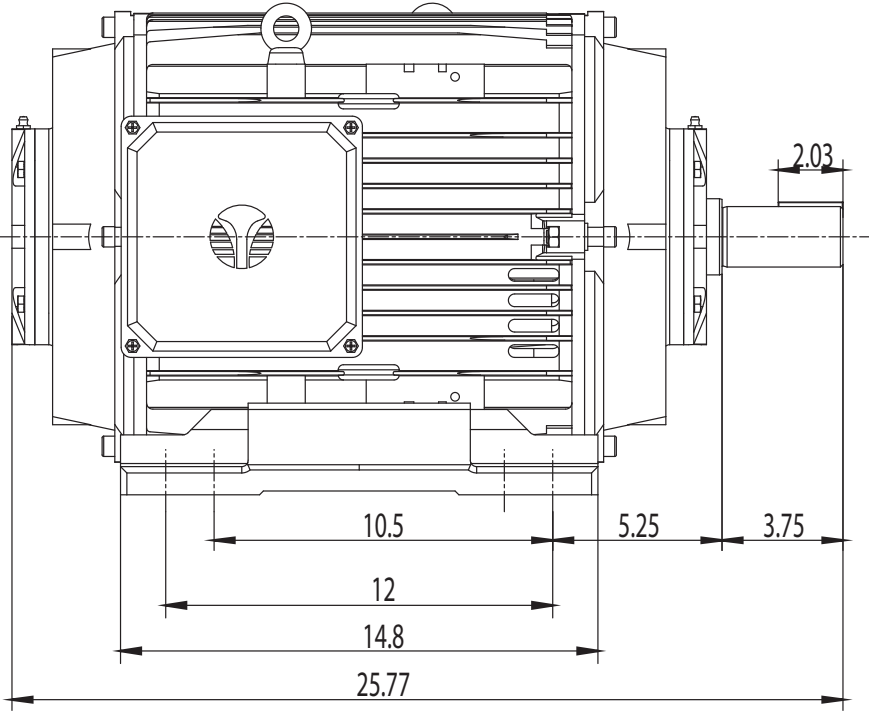
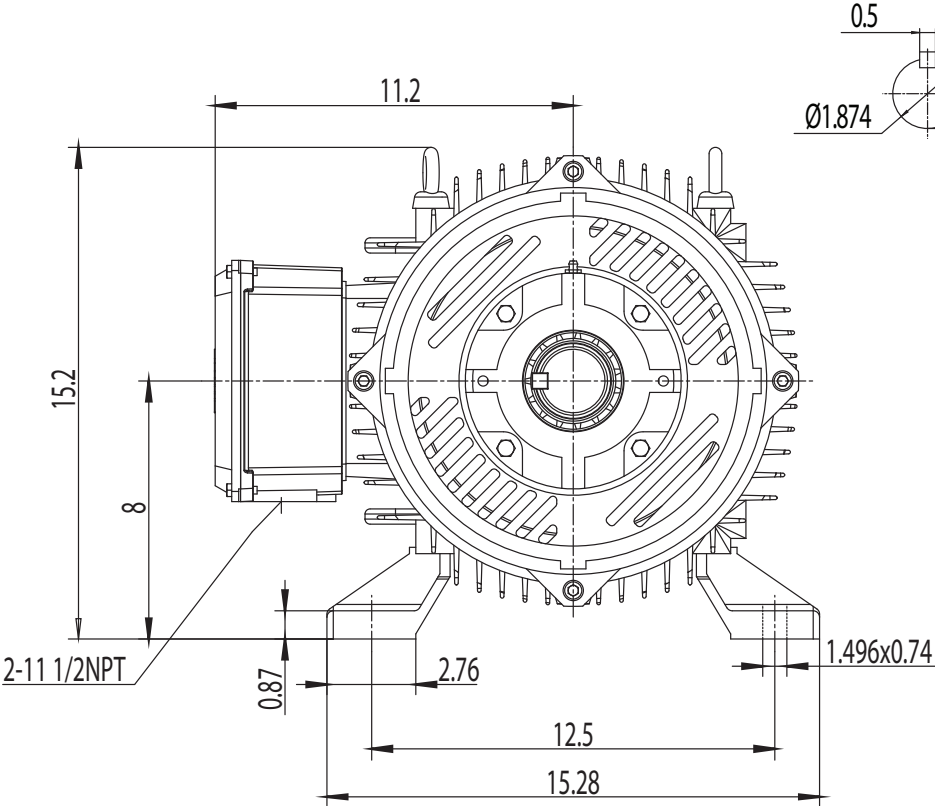
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED 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	23/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	



NEMA Premium ODP 324TS

DRAWING NUMBER:	GR3-AL-DP-324(6)TS	ISSUED DATE	23/06/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
MOUNTING:	Rigid		
CASING MATERIAL:	Cast Aluminum		