

NEMA

Model DPA0252DS-TC
MFG PN: TDA 256T25U2B

Model DPA0252DS-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPA0252DS-TC	25	3540	230/460	3	60	256TC	Rigid/C-Flange	ODP

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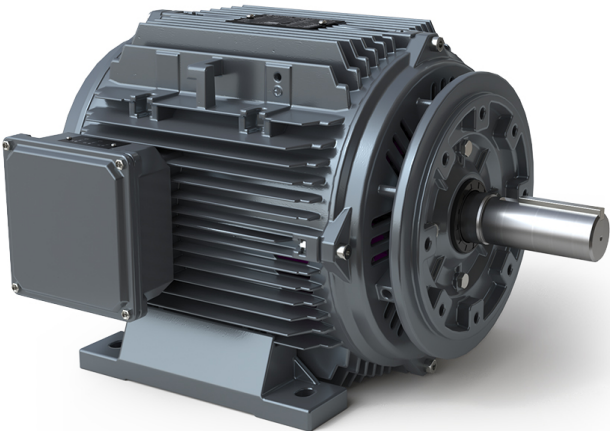
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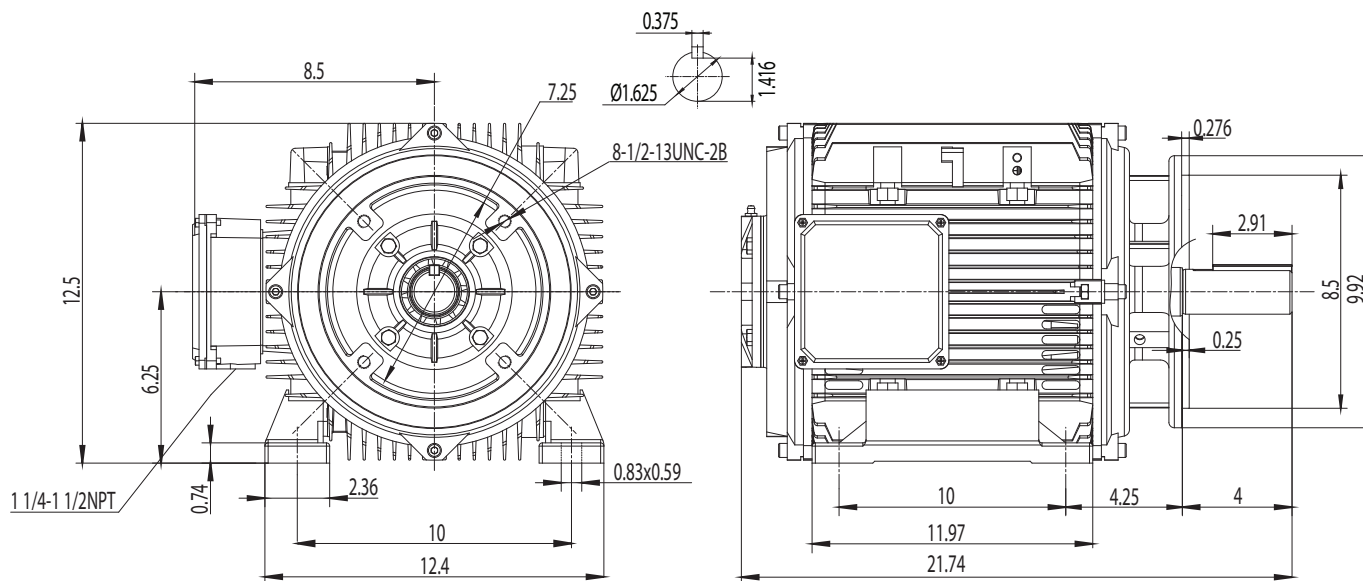
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ELECTRICAL DATA		
Rated Motor Output Power	25	HP
	18.5	kW
Rated Motor Speed	3540	r/min 60Hz
	2945	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	-	V/50Hz
Rated Motor Current	56.73/28.37	A (I _n) @ 60Hz
	69.43/34.72	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	271.3	A (I _n) @ 60Hz
FI Current @ 208V	62.73	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	G	50Hz
Nominal Efficiency	91.7	% @ 60Hz
Nominal Power Factor	0.92	cosΦ @ 60Hz
Leads (Qty, Size)	12	12
Connection	DD/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	65.9	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	256TC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	236 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	NO
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6309 C3	
Bearing ODE Side	6309 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	-	-

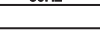
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MFG PN: TDA 256T25U2B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	25	25
RPM	3540	2945
Voltage	230/460	-
Full Load Amps	56.73/28.37	69.43/34.72
Service Factor	1.25	1
KVA Code	J	G
Full Load Amps (208V)	62.73	-
Nominal Efficiency	91.7	90.7
Nominal Power Factor	0.92	0.9
Design	B	
Frame	256TC	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6309 C3	
Opposite Drive End Bearing	6309 C3	
Weight (lbs)	236	

 TECHTOP		INDUSTRIAL THREE PHASE MOTOR INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL		MFG PN	
	60Hz	MFG DATE	
	50Hz	SER #	
HP		DESIGN	
RPM		FRAME	
VOLT		ENCL./IP	ODP 23
FLA		DUTY	
SF		INS CL	
KVA CODE		AMB	
NOM.EFF		DE	
EFF 75%		ODE	
PF		WEIGHT	lbs
USABLE AT 208V	A		



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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

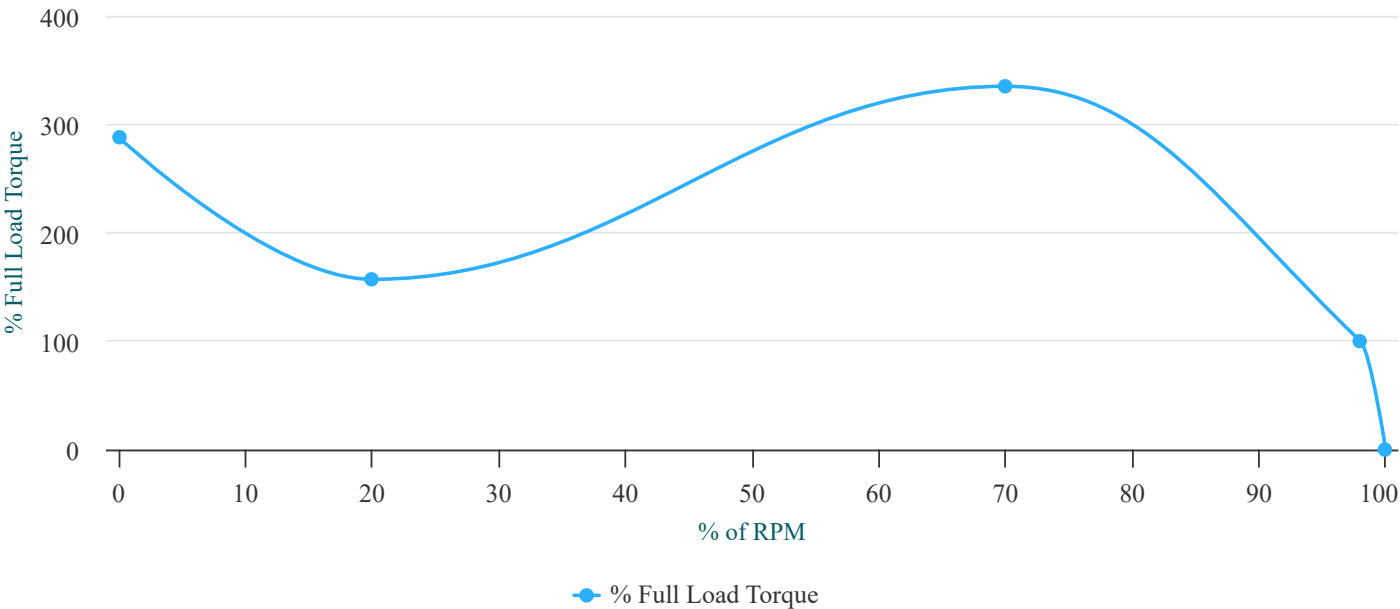
HAZARDOUS LOCATIONS	-
Class / Division	-
Groups	-

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Model DPA0252DS-TC
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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	37.1	288	Start Configuration	DOL
Pull-Up Torque	58.3	157	Starting Current (A)	271.3
Breakdown Torque	124.3	335	No-Load Current (A)	7.9
Full Load Torque	106.9	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)	10.5	15.5	21.3	27.7	31.8	31.8
Efficiency (%)	88.6	92.3	92.7	92.3	91.8	91.8
Speed (r/min)	3589	3578	3566	3553	3545	3545
Power Factor (cosΦ)	0.63	0.81	0.88	0.91	0.91	0.91
Input Power (kW)	5.22	10.03	14.96	20.04	23.16	23.16

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HIGH VOLTAGE
(Δ)



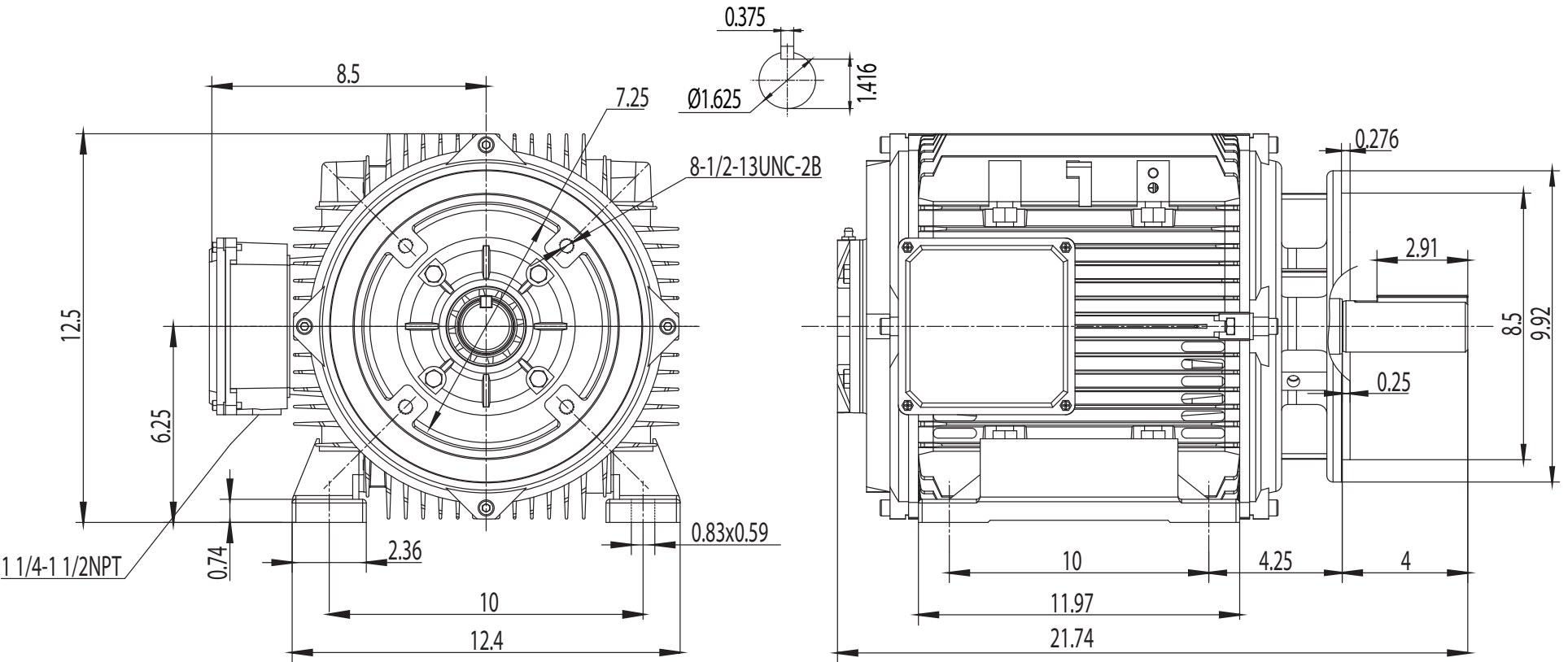
LOW VOLTAGE
(ΔΔ)

- 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



 TECHTOP <i>You can't top a Techtop.</i>		NEMA 3Ø DD/D 12-Lead Dual Voltage	
DRAWING NUMBER:	NEMA-3-12-DD-D	ISSUED DATE	20/06/25
CONNECTION:	DD/D		
NUMBER OF LEADS:	12	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
THERMAL PROTECTION:	-		

NEMA 3Ø DD/D 12-Lead Dual Voltage



NEMA Premium ODP 256TC

DRAWING NUMBER:	GR3-AL-DP-256TC	ISSUED DATE	20/06/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		