

NEMA

Model DPA0106D-TC
MFG PN: TDA 256T10U6B

Model DPA0106D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPA0106D-TC	10	1175	230/460	3	60	256TC	Rigid/C-Flange	ODP

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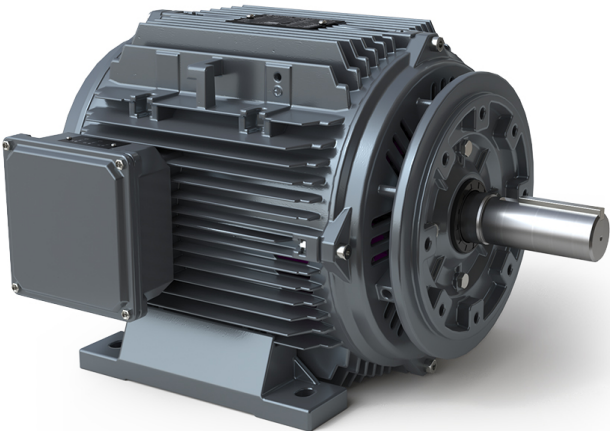
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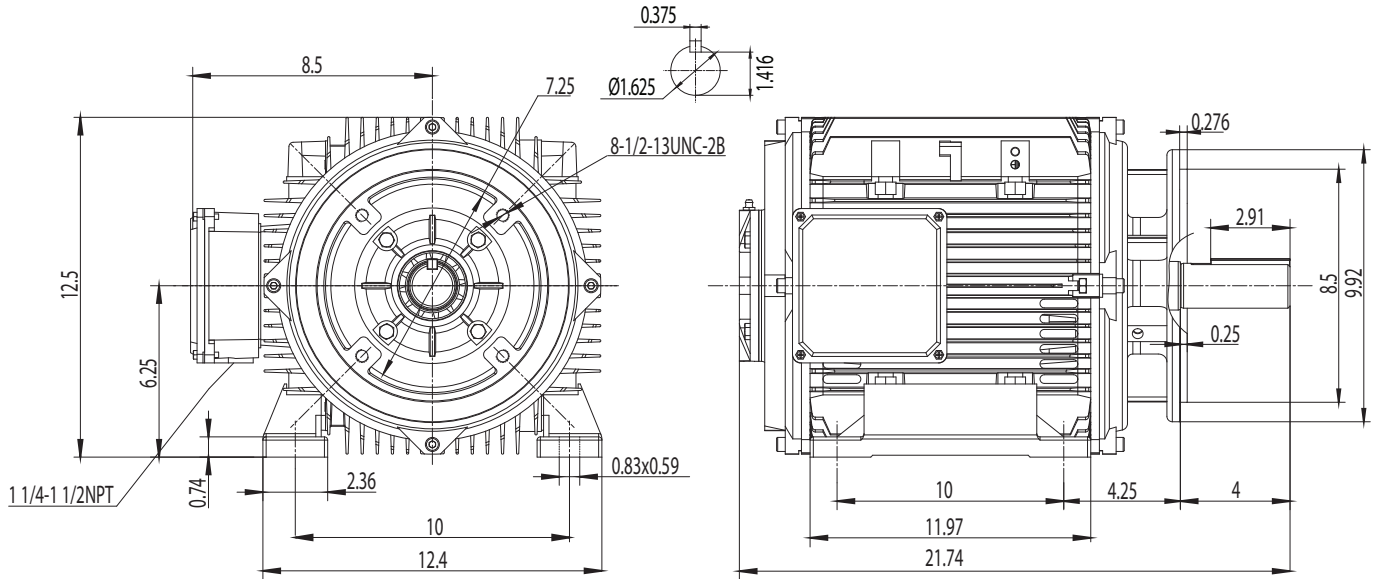
ELECTRICAL DATA		
Rated Motor Output Power	10	HP
	7.5	kW
Rated Motor Speed	1175	r/min 60Hz
	970	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	-	V/50Hz
Rated Motor Current	27.23/13.62	A (I _n) @ 60Hz
	33.01/16.51	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	88.94	A (I _n) @ 60Hz
FI Current @ 208V	30.11	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	H	50Hz
Nominal Efficiency	91.7	% @ 60Hz
Nominal Power Factor	0.75	cosΦ @ 60Hz
Leads (Qty, Size)	12	14
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	33.6	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	256TC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	223 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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NAMEPLATE DATA	60Hz	50Hz
Horse Power	10	10
RPM	1175	970
Voltage	230/460	-
Full Load Amps	27.23/13.62	33.01/16.51
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	30.11	-
Nominal Efficiency	91.7	89.2
Nominal Power Factor	0.75	0.77
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)	223	

NAMEPLATE LAYOUT

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

MODEL MFG PN

60Hz 50Hz

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

NEMA Premium

WEIGHT lbs

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

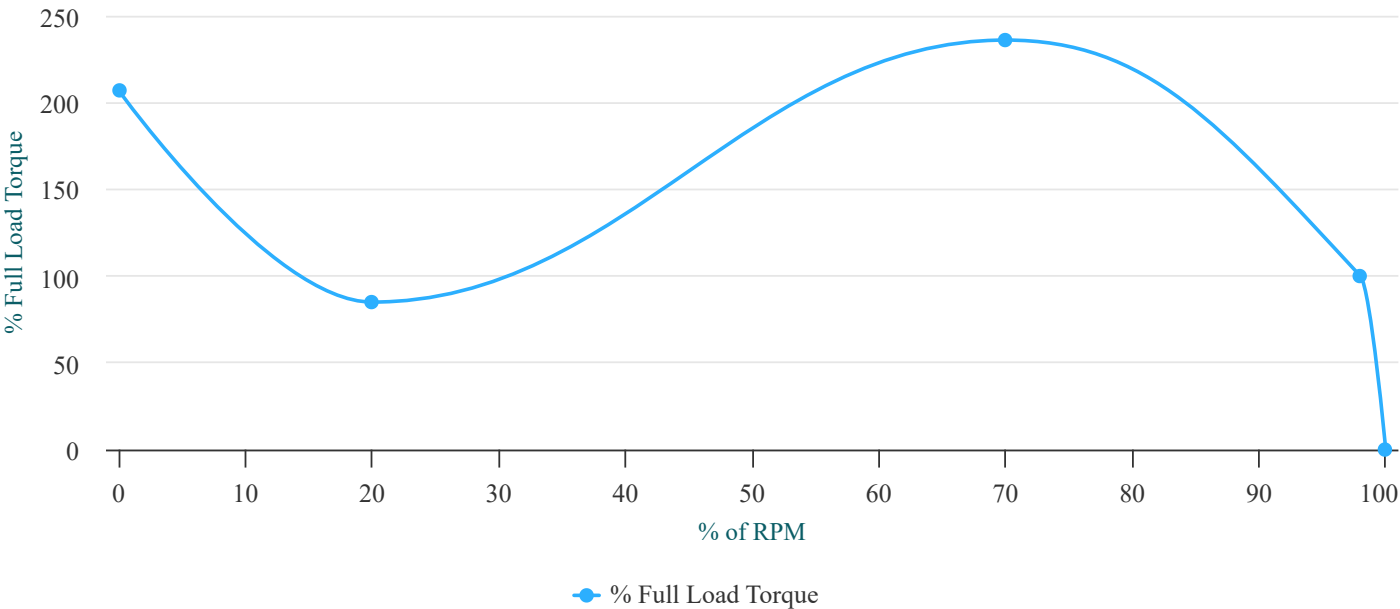
HAZARDOUS LOCATIONS	-
Class / Division	-
Groups	-

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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	44.7	207	Start Configuration	DOL
Pull-Up Torque	38	85	Starting Current (A)	88.94
Breakdown Torque	105.5	236	No-Load Current (A)	6.3
Full Load Torque	92.6	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)	6.8	8.5	10.7	13.4	16.5	16.5
Efficiency (%)	86.7	90.8	91.3	90.6	89.4	89.4
Speed (r/min)	1194	1189	1183	1176	1167	1167
Power Factor (cosΦ)	0.4	0.61	0.72	0.78	0.8	0.8
Input Power (kW)	2163.2	4128.1	6160.1	8273.9	10484	10484

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HIGH VOLTAGE
(Δ)



LOW VOLTAGE
(ΔΔ)

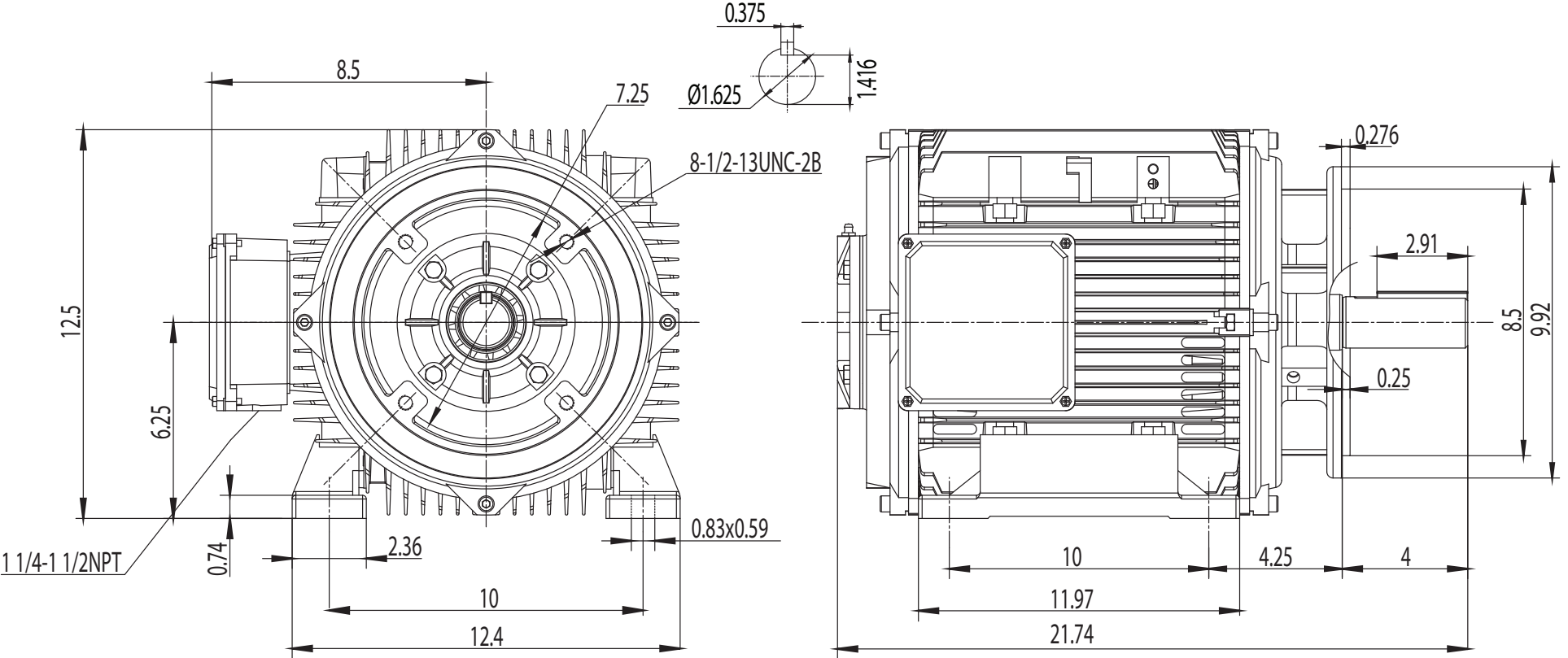
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - 5. DIAGRAMS FOR REFERENCE ONLY



DRAWING NUMBER:	NEMA-3-12-DD-D
CONNECTION:	DD/D
NUMBER OF LEADS:	12
THERMAL PROTECTION:	-

NEMA 3Ø DD/D 12-Lead Dual Voltage

ISSUED DATE	20/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	



NEMA Premium ODP 256TC

DRAWING NUMBER:

GR3-AL-DP-256TC

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Cast Aluminum

ISSUED DATE

20/06/25

PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP