

NEMA

Model DPA0076D-TC
MFG PN: TDA254T7.5U6B

Model DPA0076D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPA0076D-TC	7.5	1175	230/460	3	60	254TC	Rigid/C-Flange	ODP

Toronto

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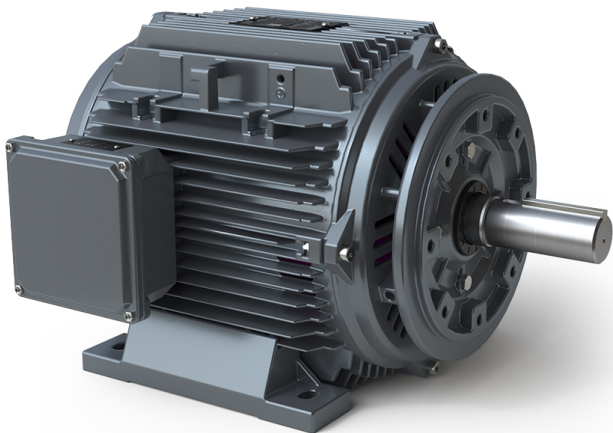
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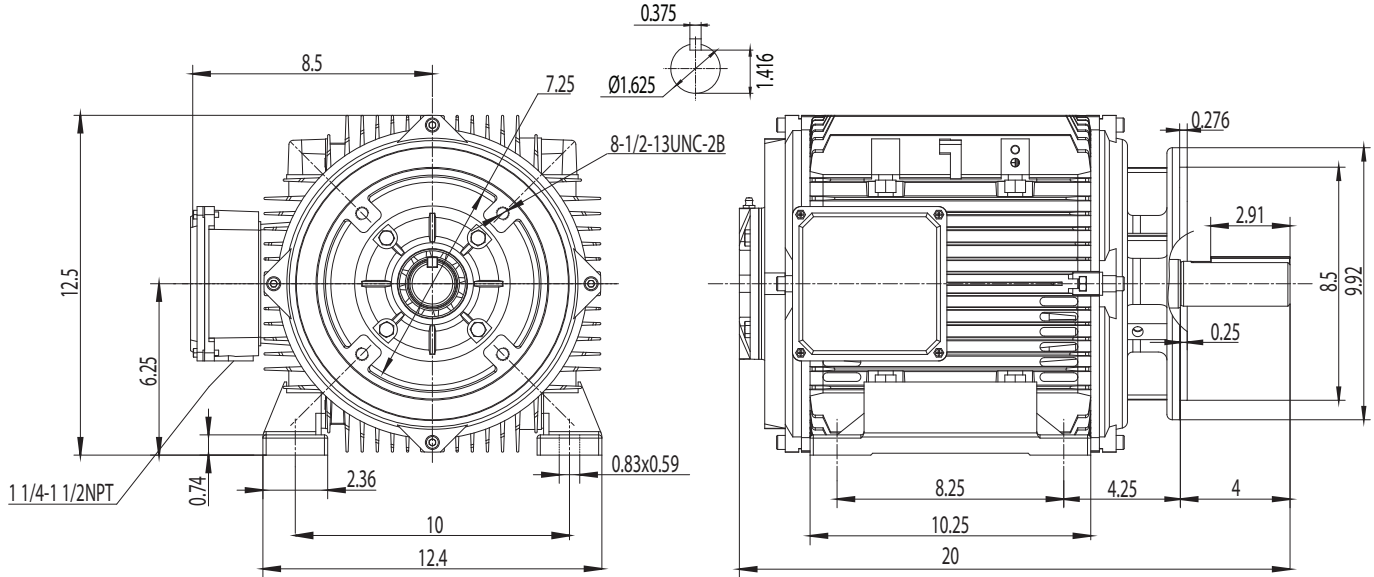
ELECTRICAL DATA		
Rated Motor Output Power	7.5	HP
	5.5	kW
Rated Motor Speed	1175	r/min 60Hz
	970	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	20.77/10.39	A (I _n) @ 60Hz
	24.87/12.44	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	55.13	A (I _n) @ 60Hz
FI Current @ 208V	22.96	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	H	50Hz
Nominal Efficiency	90.2	% @ 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	34.6	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	254TC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	190 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	7.5	7.5
RPM	1175	970
Voltage	230/460	190/380
Full Load Amps	20.77/10.39	24.87/12.44
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	22.96	-
Nominal Efficiency	90.2	88.8
Nominal Power Factor	0.75	0.77
Design	B	
Frame	254TC	
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)	190	

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

TECHTOPCANADA.COM

MADE IN CHINA

CC088A

SP 224653

Energy Verified Only

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

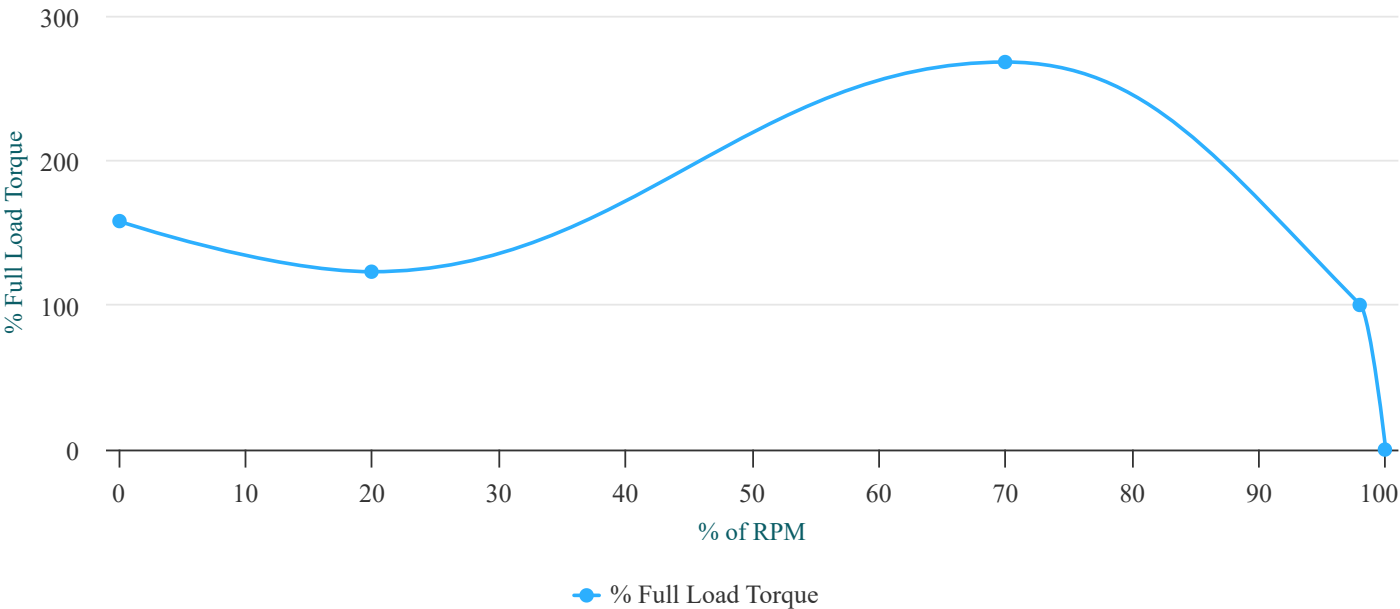
HAZARDOUS LOCATIONS	-
Class / Division	-
Groups	-

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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	33.5	158	Start Configuration	DOL
Pull-Up Torque	41.3	123	Starting Current (A)	55.13
Breakdown Torque	89.9	268	No-Load Current (A)	4.5
Full Load Torque	53	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)	4.9	6.2	7.9	10	12.6	12.6
Efficiency (%)	86.7	90.4	90.5	89.5	87.7	87.7
Speed (r/min)	1194	1188	1181	1172	1162	1162
Power Factor (cosΦ)	0.4	0.61	0.72	0.77	0.78	0.78
Input Power (kW)	1586.1	3040.7	4555.6	6148.7	7842	7842

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HIGH VOLTAGE
(Δ)



LOW VOLTAGE
(ΔΔ)

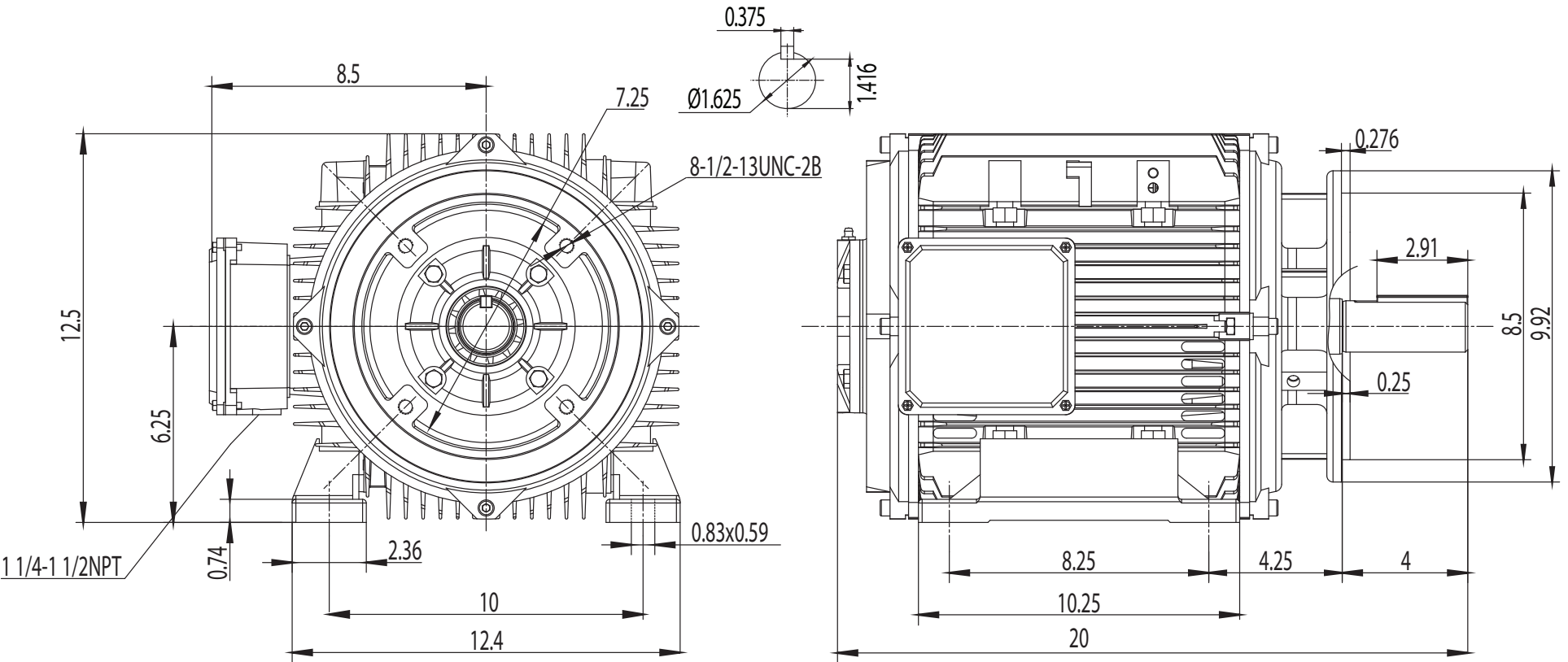
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED 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	16/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	



NEMA Premium ODP 254TC

DRAWING NUMBER:	GR3-AL-DP-254TC	ISSUED DATE	16/06/25
DIMENSIONS:	Inches	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		