

NEMA

Model DPB.506D-C
MFG PN: TDA56 1/2U6B

Model DPB.506D-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPB.506D-C	0.5	1140	230/460	3	60	56C	Rigid/C-Flange	ODP

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
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Moncton

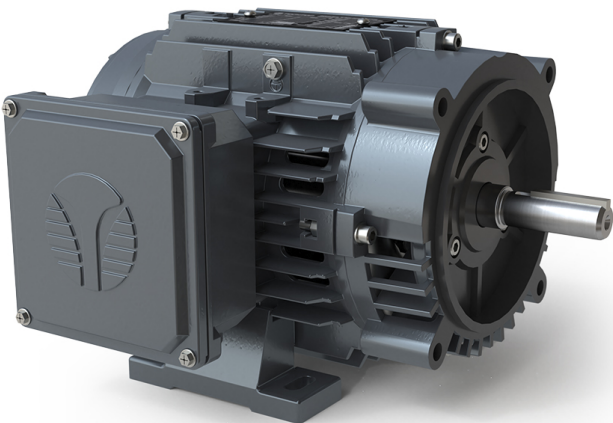
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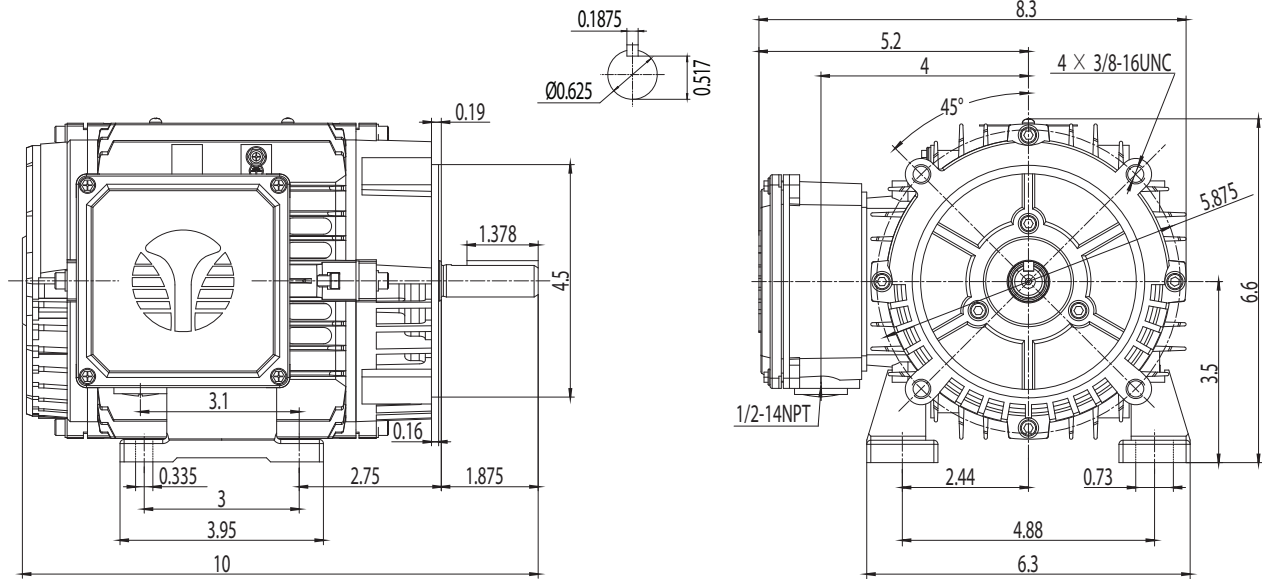
ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	0.37	kW
Rated Motor Speed	1140	r/min 60Hz
	940	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	1.96/0.98	A (I _n) @ 60Hz
	2.27/1.13	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	2.16	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	F	50Hz
Nominal Efficiency	75.3	% @ 60Hz
Nominal Power Factor	0.63	cosΦ @ 60Hz
Leads (Qty, Size)	9	18
Connection	YY/Y	-
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	-	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56C	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	19.5 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	6204 ZZ	
Bearing ODE Side	6204 ZZ	
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	0.5	0.5
RPM	1140	940
Voltage	230/460	190/380
Full Load Amps	1.96/0.98	2.27/1.13
Service Factor	1.25	1
KVA Code	J	F
Full Load Amps (208V)	2.16	-
Nominal Efficiency	75.3	74
Nominal Power Factor	0.63	0.67
Design	B	
Frame	56C	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6204 ZZ	
Opposite Drive End Bearing	6204 ZZ	
Weight (lbs)	19.5	

NAMEPLATE LAYOUT

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

MODEL MFG PN

60Hz 50Hz MFG DATE

HP SER #

RPM DESIGN

VOLT FRAME

FLA ENCL / IP ODP 23

SF DUTY

KVA CODE INS CL

NOM.EFF AMB

EFF 75% DE

PF ODE

USABLE AT 208V WEIGHT

NEMA Premium
TECHTOPCANADA.COM

MADE IN CHINA

CE
CC088A
C 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

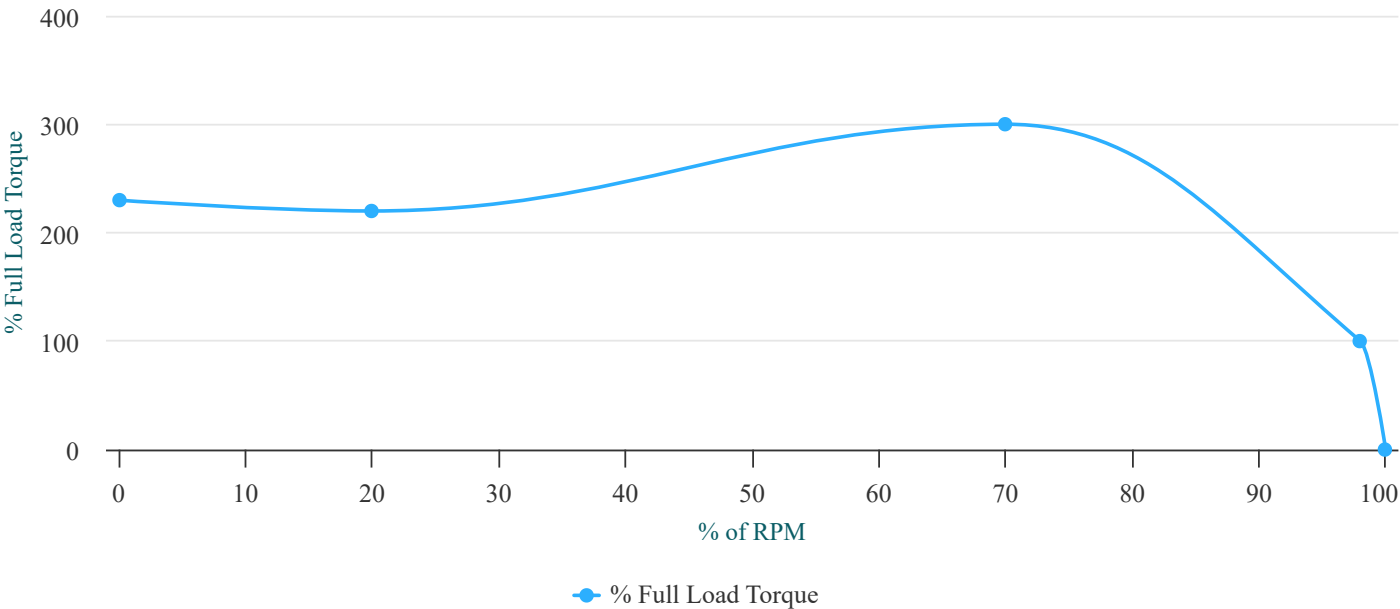
HAZARDOUS LOCATIONS	-
Class / Division	-
Groups	-

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Torque Speed (T-n) Curve



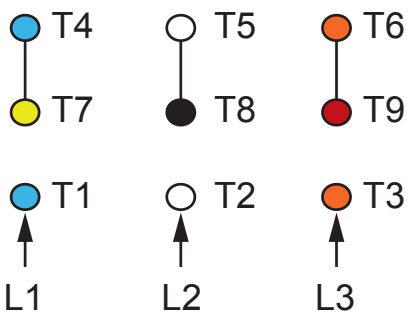
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	2.3	230	Start Configuration	DOL
Pull-Up Torque	5.1	220	Starting Current (A)	-
Breakdown Torque	6.9	300	No-Load Current (A)	-
Full Load Torque	5.3	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)	-	-	-	-	-	-
Efficiency (%)	-	0.7	74	75.3	-	-
Speed (r/min)	-	-	-	-	-	-
Power Factor (cosΦ)	-	0.41	0.53	0.63	-	-
Input Power (kW)	-	-	-	-	-	-

Questions? **Call 1.888.286.1820**



HIGH VOLTAGE
(Y)



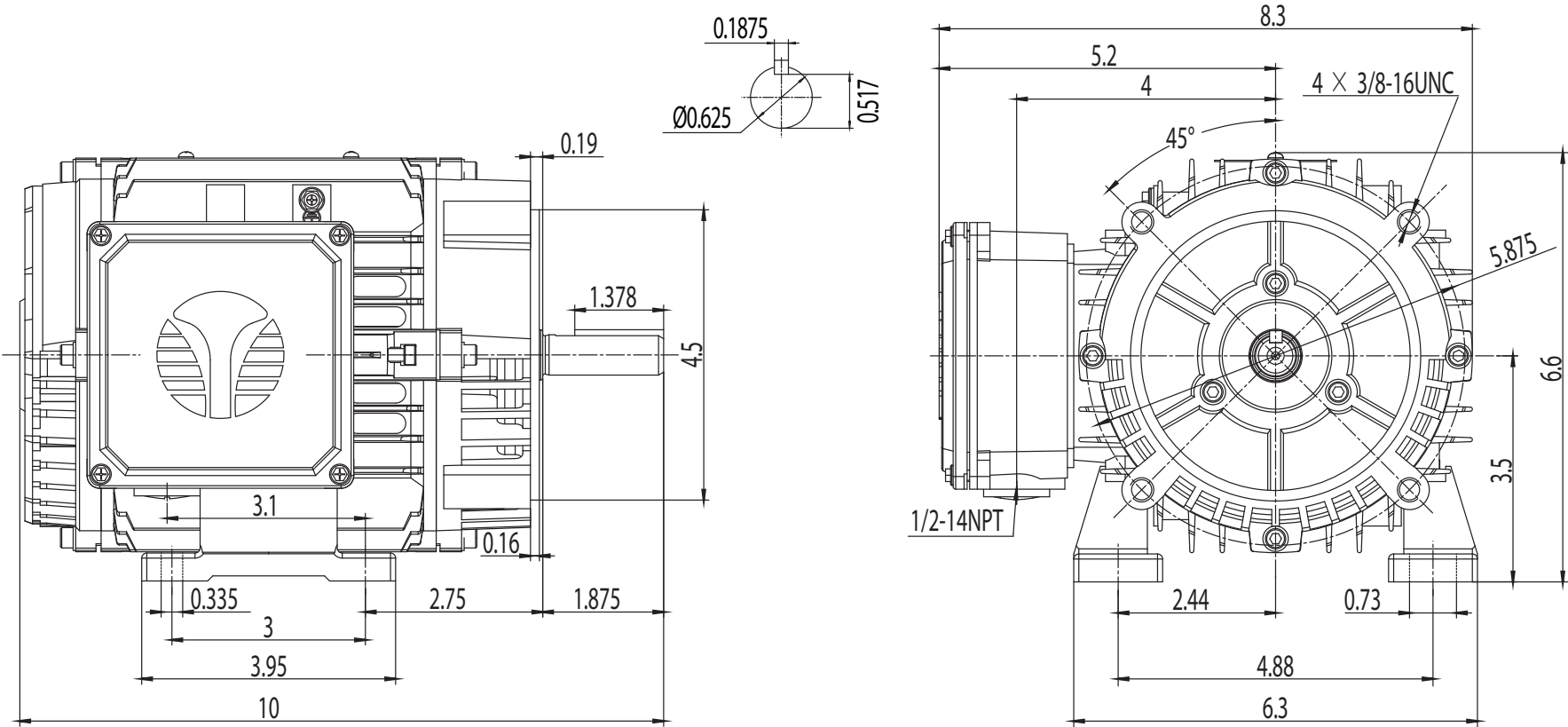
LOW VOLTAGE
(YY)

- NOTES:
- CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 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
 - LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - DIAGRAMS FOR REFERENCE ONLY



 TECHTOP You can't top a Techtop.		NEMA 3Ø YY/Y 9-Lead Dual Voltage	
DRAWING NUMBER:	NEMA-3-9-YY-Y	ISSUED DATE	30/06/25
CONNECTION:	YY/Y		
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-	PREMIUM 56C ALUMINUM MOTORS, ODP	

NEMA 3Ø YY/Y 9-Lead Dual Voltage



NEMA Premium ODP 56C

DRAWING NUMBER:	GR3-AL-DP-56C	ISSUED DATE	30/06/25
DIMENSIONS:	Inches	PREMIUM 56C ALUMINUM MOTORS, ODP	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		