

NEMA

Model JEP.502DP
MFG PN: T56 1/2U2B

Model JEP.502DP

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JEP.502DP	0.5	3490	208-230/460	3	60	56J	Rigid/C-Flange	TEFC

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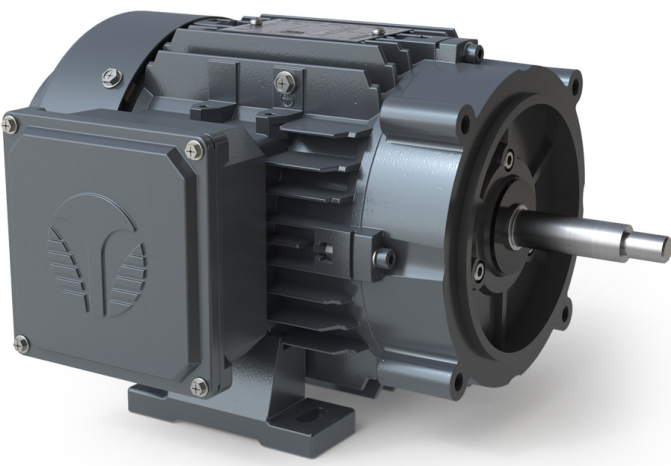
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Index

Motor General Data Sheet	P 2
Nameplate Information	P 3
Technical Performance Data	P 4
Motor General Wiring Diagram	P 5
Motor General Outline Drawing	P 6

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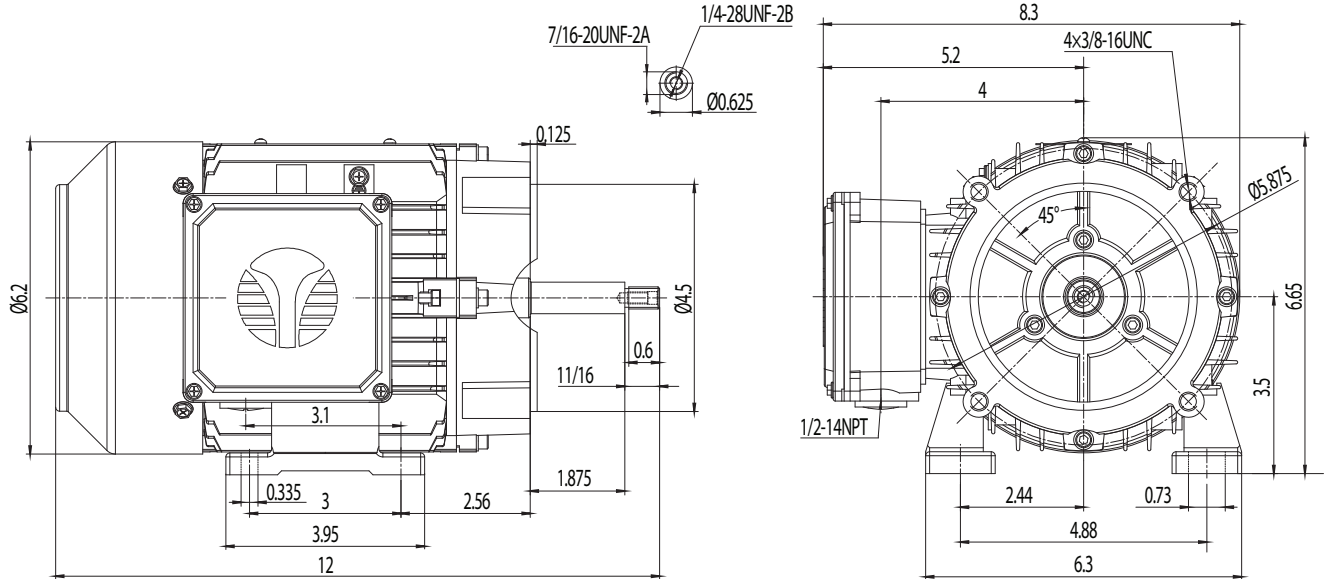
ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	-	kW
Rated Motor Speed	3490	r/min 60Hz
	2870	r/min 50Hz
Rated Motor Voltage (+/-10%)	208-230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	1.71-1.74/0.87	A (I _n) @ 60Hz
	1.94/0.97	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	5.83	A (I _n) @ 60Hz
FI Current @ 208V	1.71	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	H	50Hz
Nominal Efficiency	74	% @ 60Hz
Nominal Power Factor	0.72	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	26.2	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56J	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	15.5 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	304 SS	
NEMA Design	B	
Degree of Protection (IP)	55	
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 2RS	
Bearing ODE Side	6204 2RS	
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	A, B, C & D	
Temperature Code	T4	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.5	0.5
RPM	3490	2870
Voltage	208-230/460	190/380
Full Load Amps	1.71-1.74/0.87	1.94/0.97
Service Factor	1.25	1
KVA Code	L	H
Full Load Amps (208V)	1.71	-
Nominal Efficiency	74	73.5
Nominal Power Factor	0.72	-
Design	B	
Frame	56J	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6204 2RS	
Opposite Drive End Bearing	6204 2RS	
Weight (lbs)	15.5	

NAMEPLATE LAYOUT

TECHTOP THREE PHASE JET PUMP MOTOR
 INVERTER DUTY 30:1 VT - 1.0 SF

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

NEMA Premium
 TECHTOPCANADA.COM

CLASS 1, DIV 2, GROUPS A, B, C AND D COMPLIANT 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

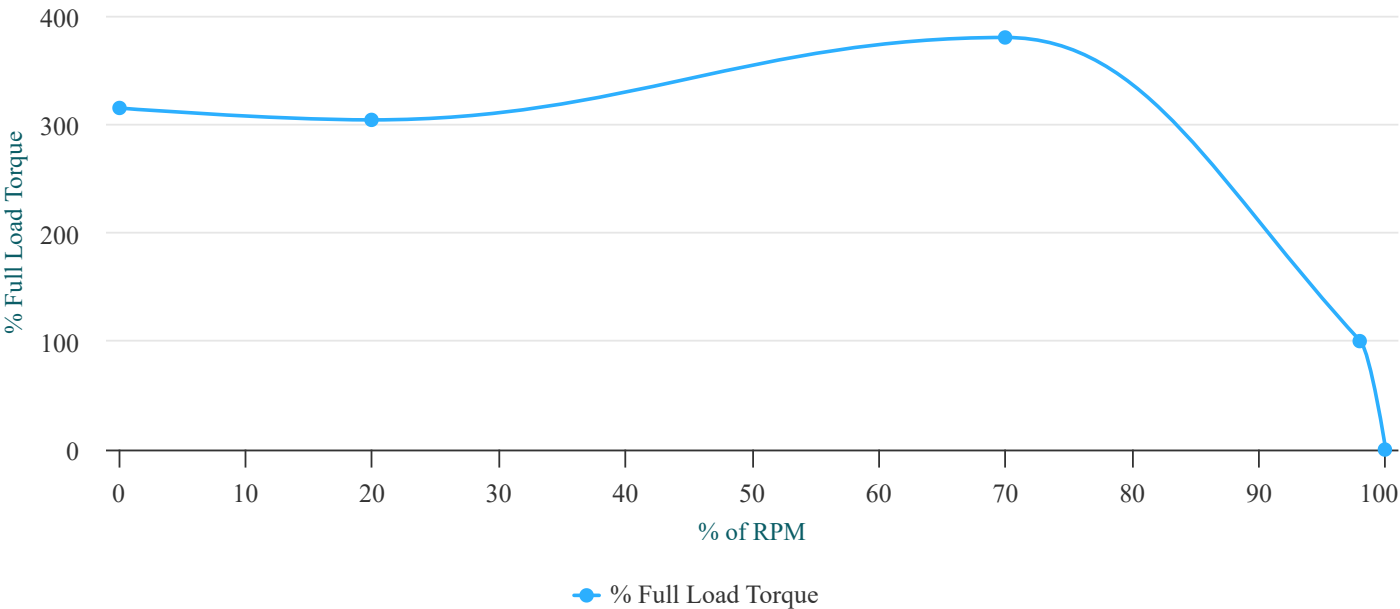
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Division II
Groups	A, B, C & D

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Torque Speed (T-n) Curve



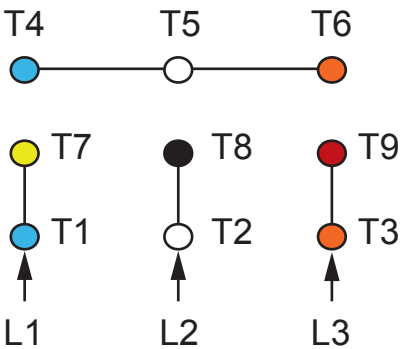
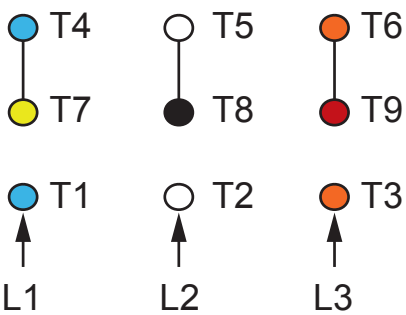
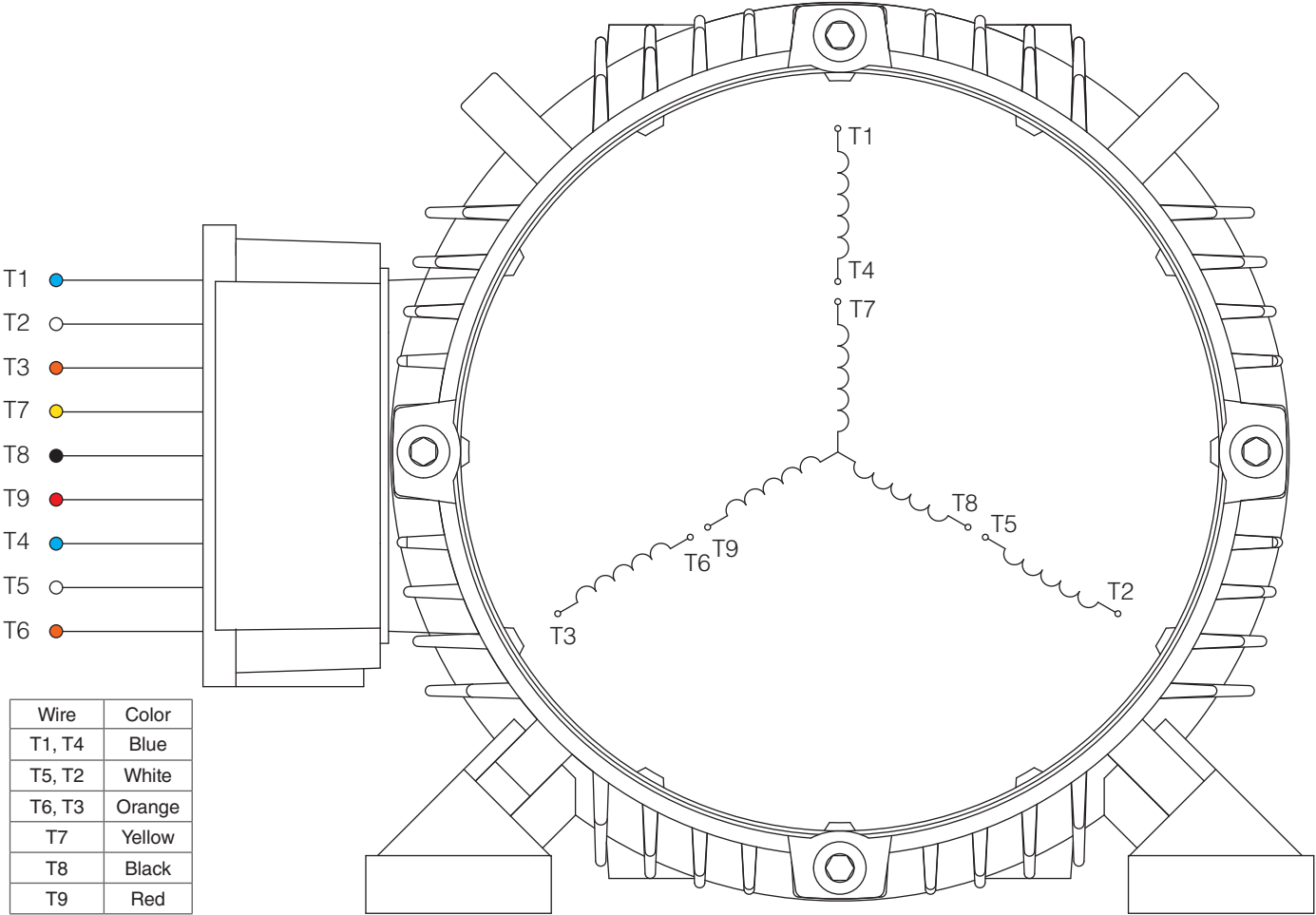
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	0.8	315	Start Configuration	DOL
Pull-Up Torque	2.3	304	Starting Current (A)	5.83
Breakdown Torque	2.9	380	No-Load Current (A)	0.6
Full Load Torque	2.4	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)	0.6	0.7	0.7	0.8	0.9	0.9
Efficiency (%)	56.5	70.8	76.3	78.5	79	79
Speed (r/min)	3571	3547	3521	3492	3460	3460
Power Factor (cosΦ)	0.33	0.5	0.63	0.72	0.79	0.79
Input Power (kW)	0.17	0.26	0.37	0.48	0.59	0.59

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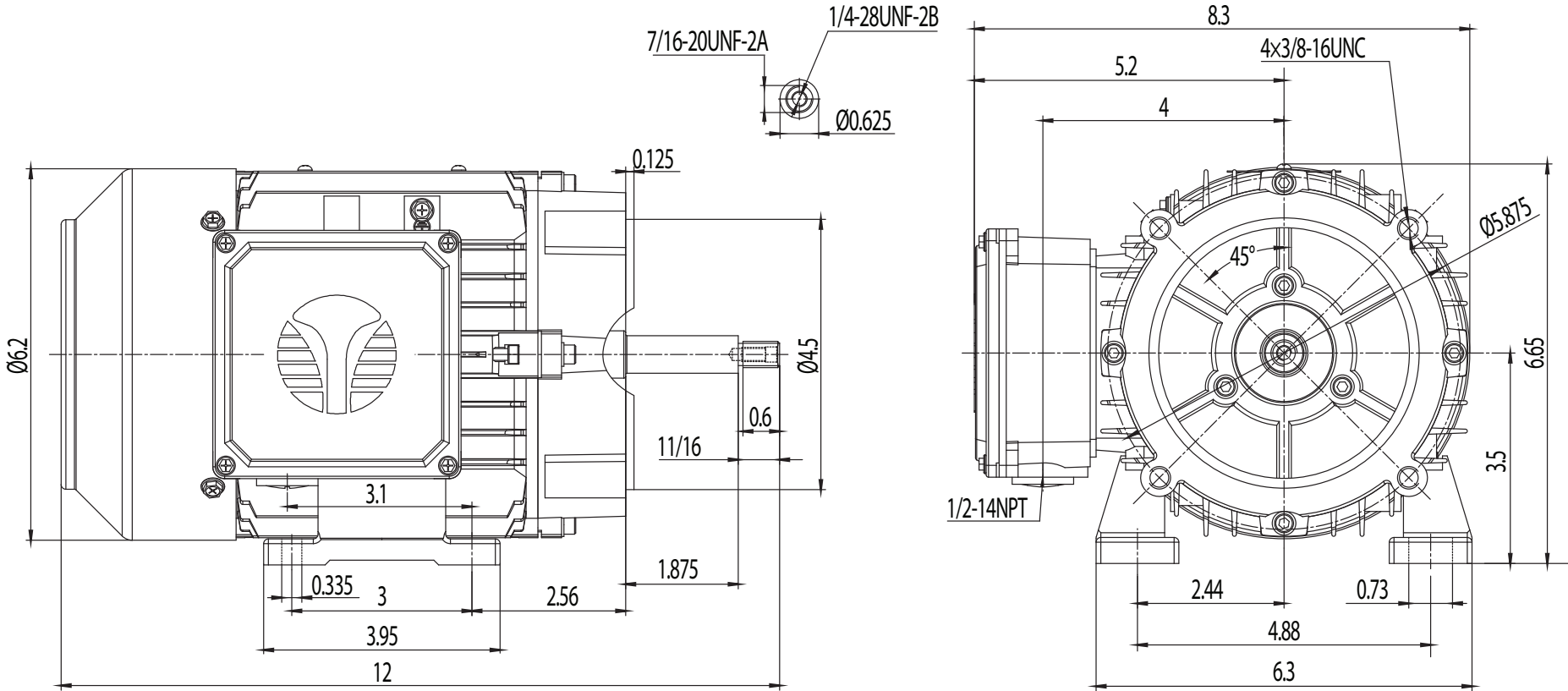
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



DRAWING NUMBER:	NEMA-3-9-YY-Y
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	-

NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE	04/08/25
PREMIUM 56J JET PUMP MOTORS	



NEMA Premium TEFC 56J

DRAWING NUMBER:	GR3-AL-TF-56J	ISSUED DATE	04/08/25
DIMENSIONS:	Inches	PREMIUM 56J JET PUMP MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		