

NEMA

Model JEP.504F
MFG PN: TFA561/2U4B

Model JEP.504F

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JEP.504F	0.5	1725	575	3	60	56J	Rigid/C-Flange	TEFC

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techtopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techtopcanada.com

Moncton

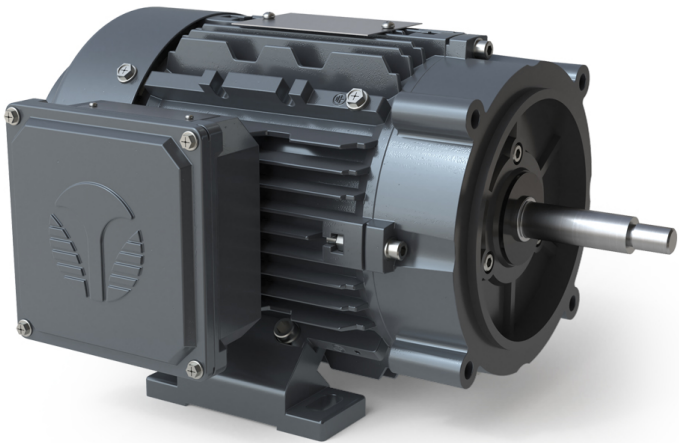
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techtopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techtopcanada.com



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

NEMA

Model JEP.504F
MFG PN: TFA561/2U4B

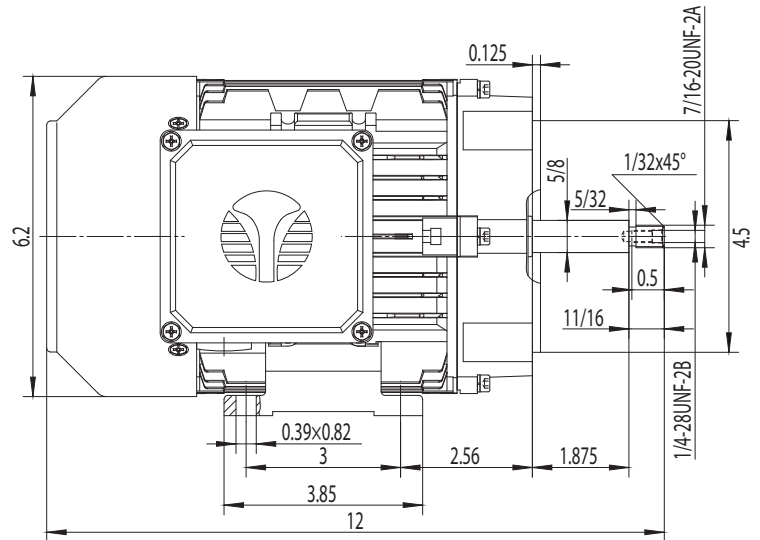
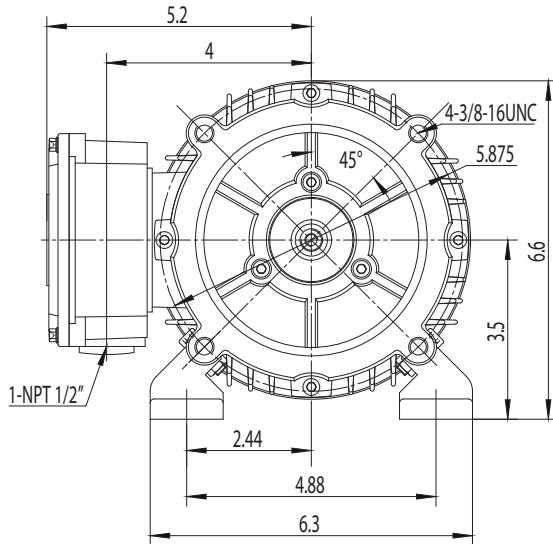
ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	-	kW
Rated Motor Speed	1725	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	0.83	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	3.52	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	J	60Hz
	-	50Hz
Nominal Efficiency	70.6	% @ 60Hz
Nominal Power Factor	0.63	cosΦ @ 60Hz
Leads (Qty, Size)	3	18
Connection	Y	-
Coil Resistance	-	Ω
Start Capacitor	-	µF/V
Run Capacitor	-	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	10:1	6 - 60
Constant Torque	4:1	15 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	-	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56J	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	18.3 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 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	A, B, C & D	
Temperature Code	-	-

Questions? Call 1.888.286.1820

NEMA

Model JEP.504F
MFG PN: TFA561/2U4B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.5	0.5
RPM	1725	-
Voltage	575	-
Full Load Amps	0.83	-
Service Factor	1.15	-
KVA Code	J	-
Full Load Amps (208V)	-	-
Nominal Efficiency	70.6	-
Nominal Power Factor	0.63	-
Design	B	
Frame	56J	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6204 ZZ	
Opposite Drive End Bearing	6204 ZZ	
Weight (lbs)	18.3	

NAMEPLATE LAYOUT

TECHTOP THREE PHASE JET PUMP MOTOR INVERTER DUTY 4:1 CT 10:1 VT - 1.0 SF	
MODEL	MFG PN
60Hz	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
A	lbs
CLASS 1, DIV 2, GROUPS A, B, C AND D COMPLIANT	
TECHTOPCANADA.COM	

VFD DUTY (S.F. 1.0)

Variable Torque
 Constant Torque

RATIO

10:1
 4:1

Hz*

6 - 60
 15 - 60

*For max speed please contact Techtop Canada

HAZARDOUS LOCATIONS

Class / Division
 Groups

COMPLIANT ONLY

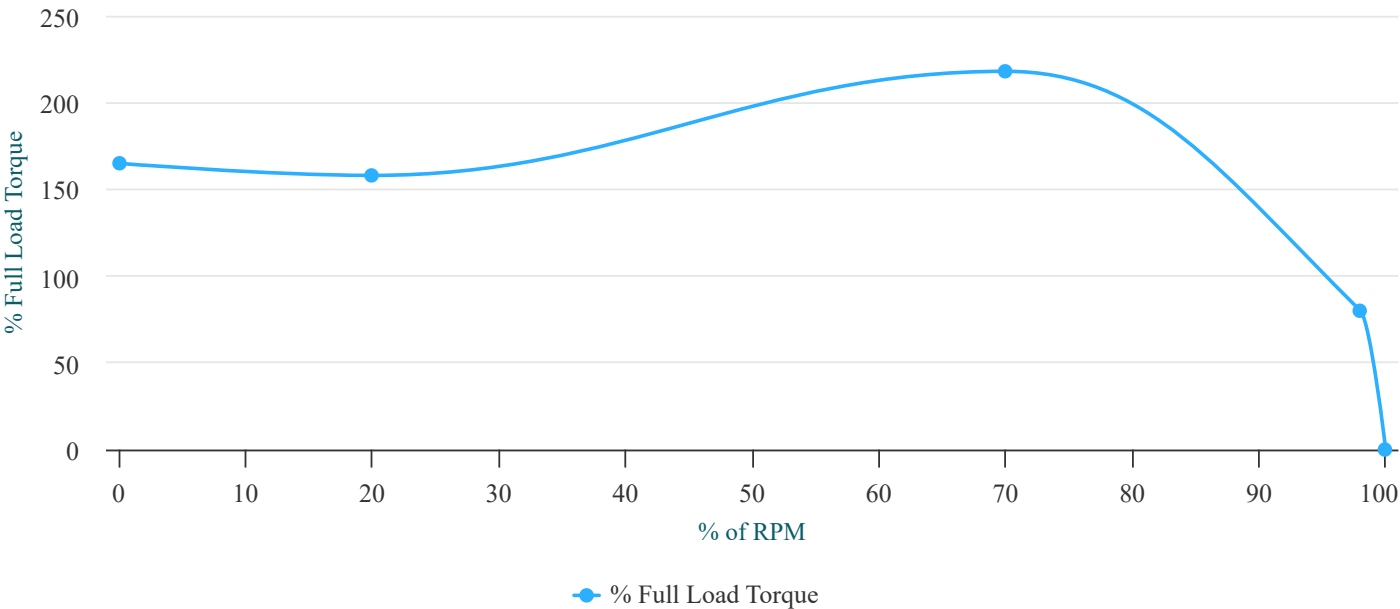
Class I, Division II
 A, B, C & D

Questions? Call 1.888.286.1820

NEMA

Model JEP.504F
MFG PN: TFA561/2U4B

Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	1.5	165
Pull-Up Torque	3	158
Breakdown Torque	4.1	218
Full Load Torque	3.1	80

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	3.52
No-Load Current (A)	0.5
No-Load Power Factor	0.09

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	-	-	-	0.7	0	0
Efficiency (%)	0	0	0	61.4	0	0
Speed (r/min)	0	0	0	1380	0	0
Power Factor (cosΦ)	0	0	0	0.55	0	0
Input Power (kW)	0	0	0	0.38	0	0

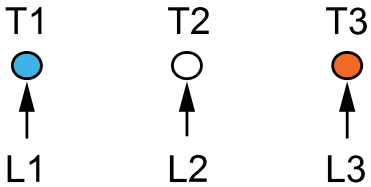
Questions? **Call 1.888.286.1820**



Model JEP.504F
MFG PN: TFA561/2U4B



Wire	Color
T1	Blue
T2	White
T3	Orange



SINGLE VOLTAGE

- 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

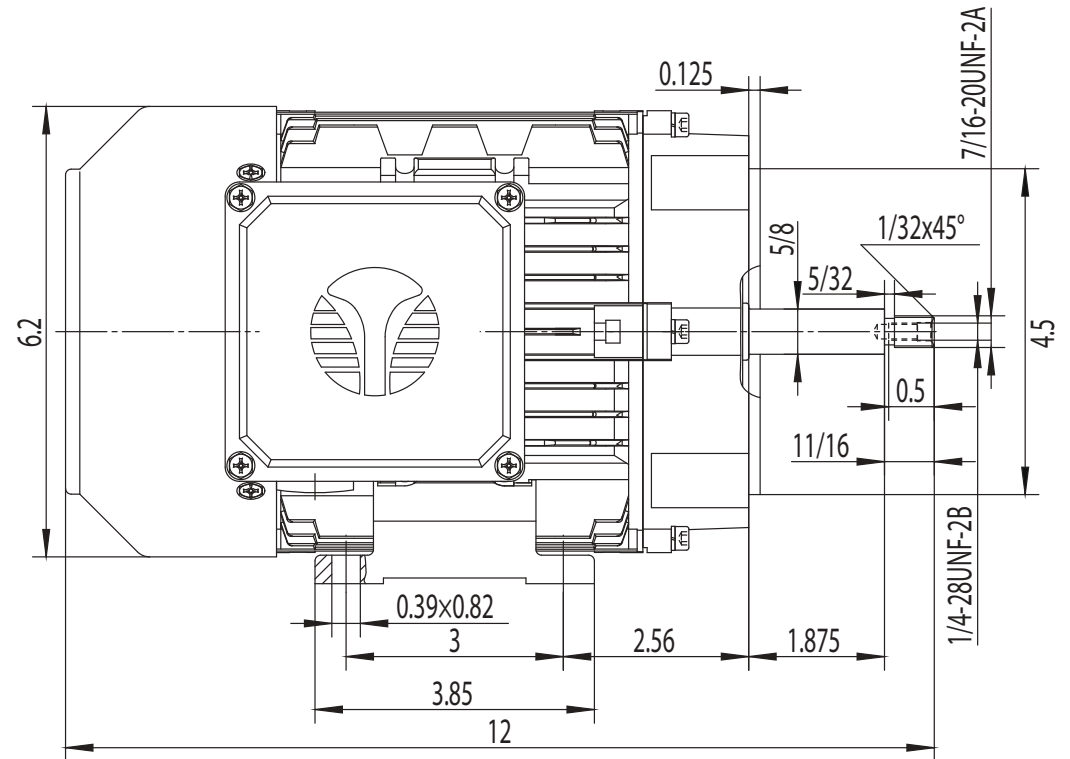
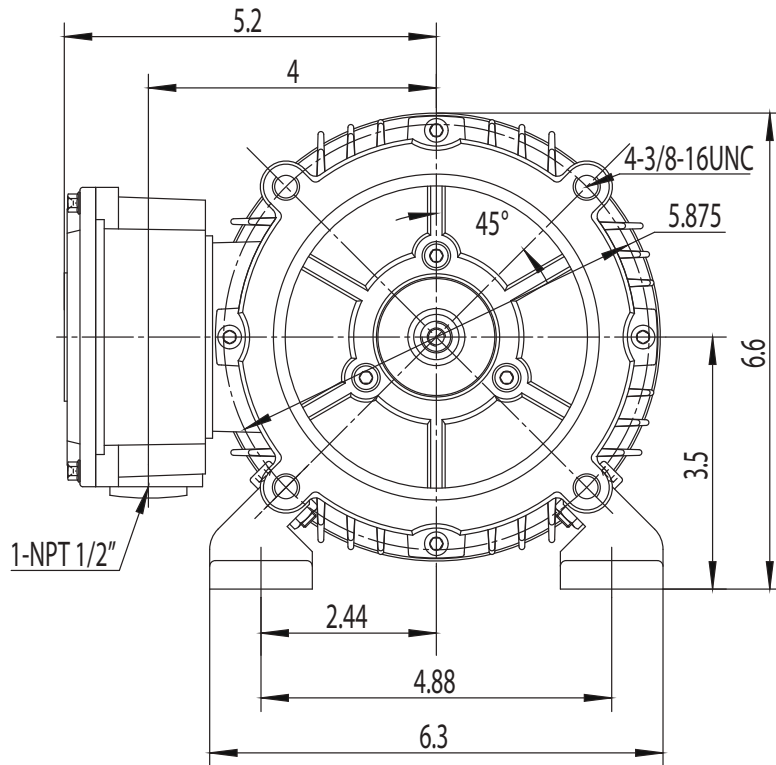


 TECHTOP You can't top a Techtop.		NEMA 3Ø Y 3-Lead Single Voltage	
DRAWING NUMBER:	NEMA-3-3-Y	ISSUED DATE	04/08/25
CONNECTION:	Y		
NUMBER OF LEADS:	3		
THERMAL PROTECTION:	-	PREMIUM 56J JET PUMP MOTORS	

NEMA 3Ø Y 3-Lead Single Voltage

NEMA

Model JEP.504F
MFG PN: TFA561/2U4B



NEMA EPAct TEFC 56J

DRAWING NUMBER: GA3-AL-TF-56J

DIMENSIONS: Inches

MOUNTING: Rigid/C-Flange

CASING MATERIAL: Cast Aluminum

ISSUED DATE 04/08/25

PREMIUM 56J JET PUMP MOTORS