

**NEMA**

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

# Model JEP.502FP

## Product Data Package



| MODEL     | HP  | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-----------|-----|------|---------|-------|----|-------|----------------|-----------|
| JEP.502FP | 0.5 | 3490 | 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

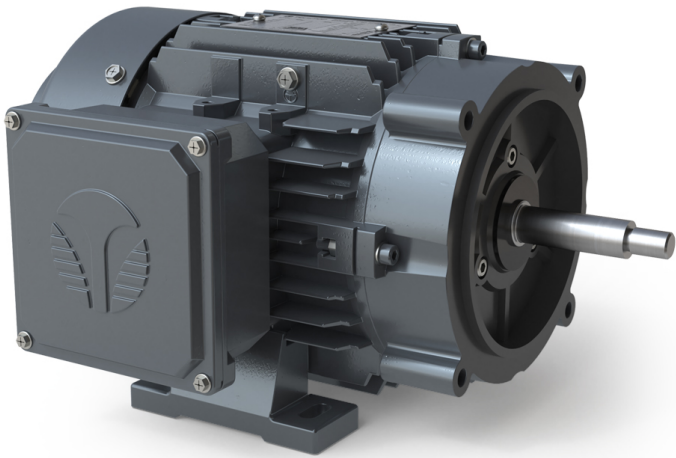
**PHONE** 506.386.5794  
**EMAIL** infoNB@techtopcanada.com

### Winnipeg

**PHONE** 204.633.2779  
**EMAIL** infoMB@techtopcanada.com

### Vancouver

**PHONE** 604.525.1551  
**EMAIL** infoBC@techtopcanada.com



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| ELECTRICAL DATA                     |       |                            |
|-------------------------------------|-------|----------------------------|
| Rated Motor Output Power            | 0.5   | HP                         |
|                                     | -     | kW                         |
| Rated Motor Speed                   | 3490  | r/min 60Hz                 |
|                                     | -     | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 575   | V/60Hz                     |
|                                     | -     | V/50Hz                     |
| Rated Motor Current                 | 0.70  | A (I <sub>n</sub> ) @ 60Hz |
|                                     | -     | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3     | Ø                          |
| Locked Rotor Current @ High Voltage | 4.67  | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | -     | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25  | @ 60Hz                     |
|                                     | -     | @ 50Hz                     |
| KVA Code                            | L     | 60Hz                       |
|                                     | -     | 50Hz                       |
| Nominal Efficiency                  | 74    | % @ 60Hz                   |
| Nominal Power Factor                | 0.72  | 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                     | 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               | -     |

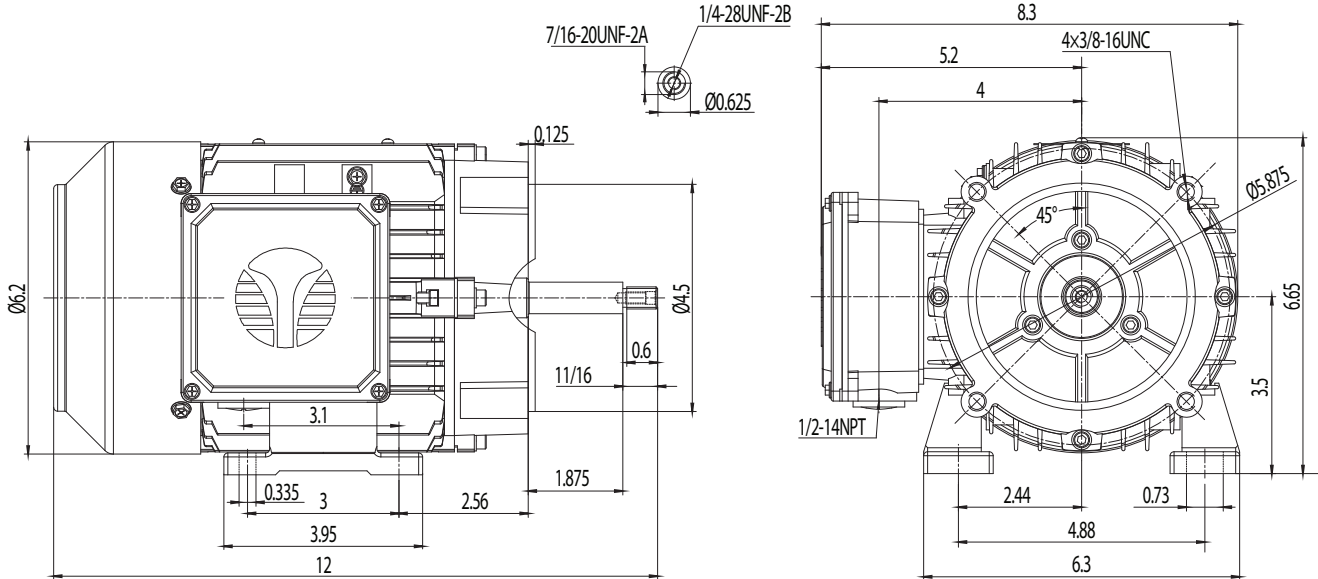
**Questions? Call 1.888.286.1820**

**DATA SHEET: THREE-PHASE SQUIRREL CAGE MOTOR**  
**PREMIUM 56J JET PUMP MOTORS**



**NEMA**

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| NAMEPLATE DATA             | 60Hz       | 50Hz |
|----------------------------|------------|------|
| Horse Power                | 0.5        | 0.5  |
| RPM                        | 3490       | -    |
| Voltage                    | 575        | -    |
| Full Load Amps             | 0.70       | -    |
| Service Factor             | 1.25       | -    |
| KVA Code                   | L          | -    |
| Full Load Amps (208V)      | -          | -    |
| Nominal Efficiency         | 74         | -    |
| 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

CC088A  
E323353  
UL  
C-ULUS  
224653  
SP  
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

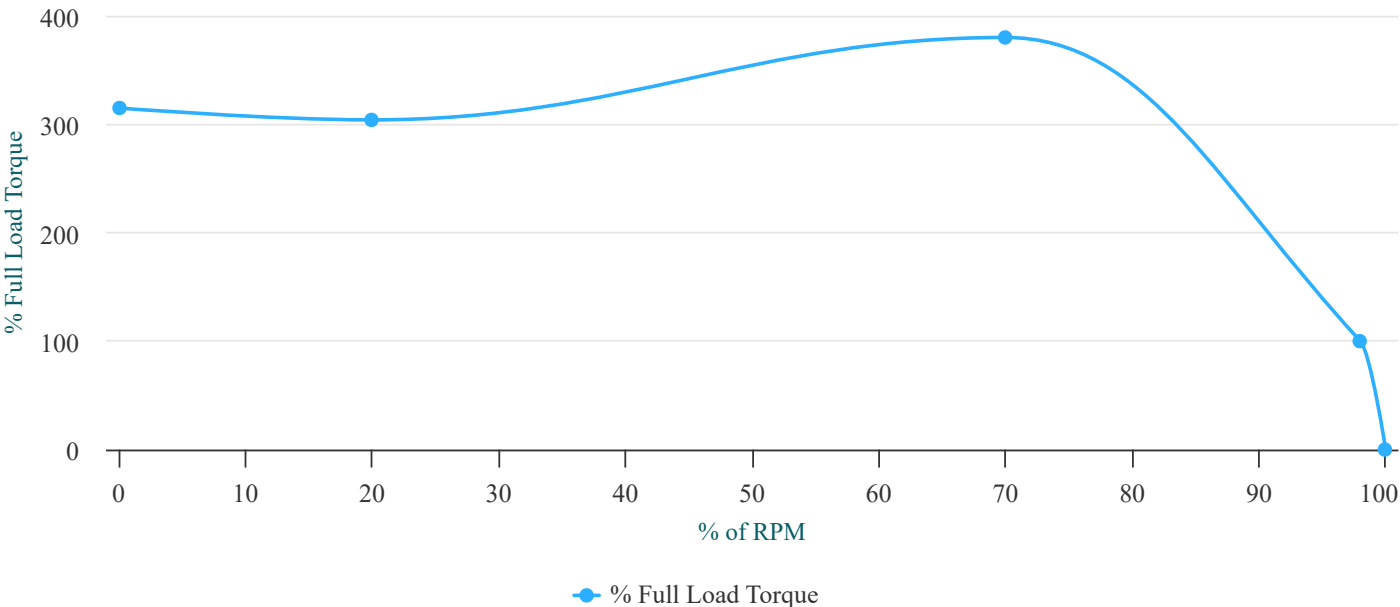
| HAZARDOUS LOCATIONS | CSA CERTIFIED        |
|---------------------|----------------------|
| Class / Division    | Class I, Division II |
| Groups              | A, B, C & D          |

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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) | 4.67 |
| Breakdown Torque    | 2.9            | 380                  | No-Load Current (A)  | 0.5  |
| 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)    | 0.5  | 0.5  | 0.6  | 0.7  | 0.8  | 0.8       |
| 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      |

Questions? Call 1.888.286.1820



Model JEP.502FP  
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| 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



|                     |            |
|---------------------|------------|
| DRAWING NUMBER:     | NEMA-3-3-Y |
| CONNECTION:         | Y          |
| NUMBER OF LEADS:    | 3          |
| THERMAL PROTECTION: | -          |

NEMA 3Ø Y 3-Lead Single 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         |                             |          |
| MOUNTING:        | Rigid/C-Flange | PREMIUM 56J JET PUMP MOTORS |          |
| CASING MATERIAL: | Cast Aluminum  |                             |          |