

**NEMA**

**Model JEP0052DP**  
MFG PN: T56 5U2B

# Model JEP0052DP

## Product Data Package



| MODEL     | HP | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-----------|----|------|---------|-------|----|-------|----------------|-----------|
| JEP0052DP | 5  | 3500 | 230/460 | 3     | 60 | L56HJ | Rigid/C-Flange | TEFC      |

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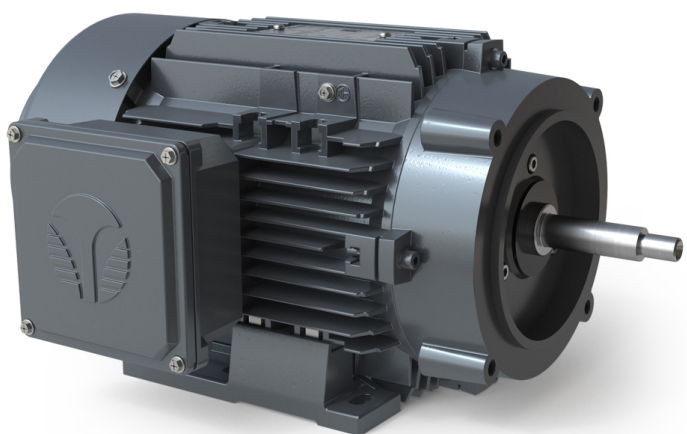
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**NEMA**

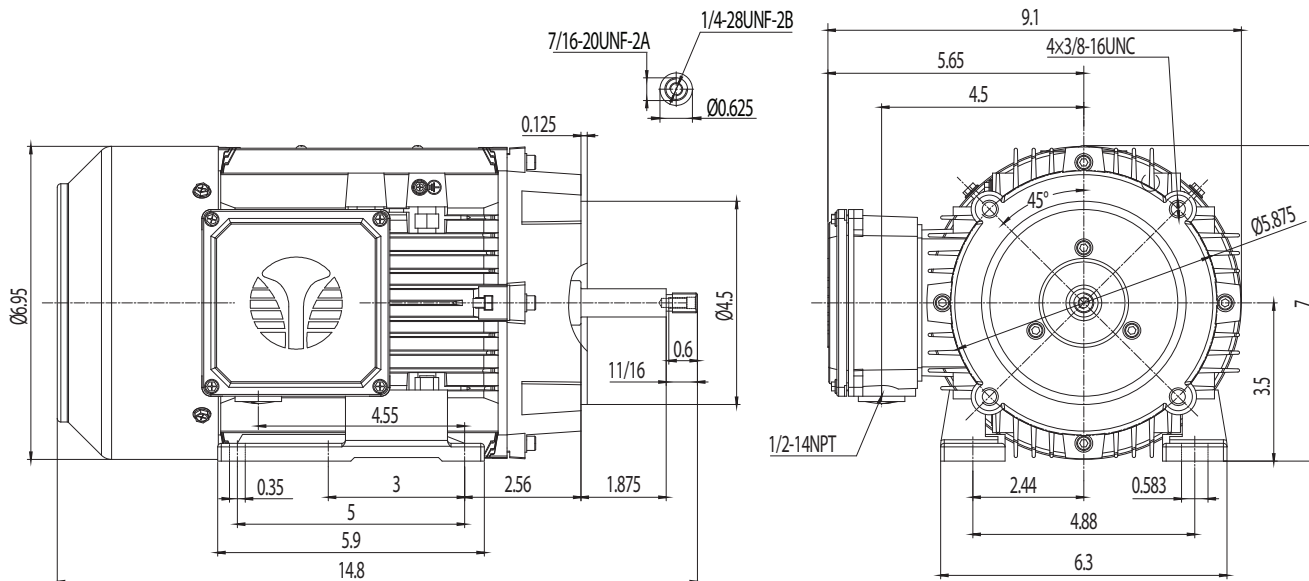
**Model JEP0052DP**  
**MFG PN: T56 5U2B**

| ELECTRICAL DATA                     |                |                            |
|-------------------------------------|----------------|----------------------------|
| Rated Motor Output Power            | 5              | HP                         |
|                                     | -              | kW                         |
| Rated Motor Speed                   | 3500           | r/min 60Hz                 |
|                                     | 2860           | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 230/460        | V/60Hz                     |
|                                     | 190/380        | V/50Hz                     |
| Rated Motor Current                 | 13.0-12.1/6.05 | A (I <sub>n</sub> ) @ 60Hz |
|                                     | 14.7/7.35      | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3              | Ø                          |
| Locked Rotor Current @ High Voltage | 60.77          | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | 13             | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25           | @ 60Hz                     |
|                                     | 1              | @ 50Hz                     |
| KVA Code                            | L              | 60Hz                       |
|                                     | J              | 50Hz                       |
| Nominal Efficiency                  | 88.5           | % @ 60Hz                   |
| Nominal Power Factor                | 0.87           | 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          | 48.2           | °C @ 60Hz                  |
|                                     | -              | °C @ 50Hz                  |

| GENERAL DATA                        |                  |       |
|-------------------------------------|------------------|-------|
| Frame Size                          | L56HJ            |       |
| Enclosure                           | TEFC             |       |
| Mounting                            | Rigid/C-Flange   |       |
| Approximate Weight (lbs.)           | 42.6 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                                | S2               |       |
| Conduit Box Location                | F1               |       |
| Feet Removable / Double Drilled     | YES              | YES   |
| Paintwork                           | 7024             |       |
|                                     | Graphite Gray    |       |
| MECHANICAL DATA                     |                  |       |
| Bearing DE Side                     | 6205 2RS         |       |
| Bearing ODE Side                    | 6205 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                    | T2D              | -     |

**Questions? Call 1.888.286.1820**

MFG PN: T56 5U2B



| NAMEPLATE DATA             | 60Hz           | 50Hz      |
|----------------------------|----------------|-----------|
| Horse Power                | 5              | 3         |
| RPM                        | 3500           | 2860      |
| Voltage                    | 230/460        | 190/380   |
| Full Load Amps             | 13.0-12.1/6.05 | 14.7/7.35 |
| Service Factor             | 1.25           | 1         |
| KVA Code                   | L              | J         |
| Full Load Amps (208V)      | 13             | -         |
| Nominal Efficiency         | 88.5           | 85        |
| Nominal Power Factor       | 0.87           | -         |
| Design                     | B              |           |
| Frame                      | L56HJ          |           |
| Enclosure Type             | TEFC           |           |
| IP Rating                  | 55             |           |
| Duty                       | S2             |           |
| Insulation Class           | F              |           |
| Ambient Rating             | 40             |           |
| Drive End Bearing          | 6205 2RS       |           |
| Opposite Drive End Bearing | 6205 2RS       |           |
| Weight (lbs)               | 42.6           |           |



# TECHTOP

## THREE PHASE JET PUMP MOTOR

### INVERTER DUTY 30:1 VT - 1.0 SF

|                                                                                                |                                                                                                                                                                         |                  |  |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| <b>MODEL</b>                                                                                   |                                                                                                                                                                         | <b>MFG PN</b>    |  |
|                                                                                                | 60Hz                      50Hz                                                                                                                                          | <b>MFG DATE</b>  |  |
| <b>HP</b>                                                                                      |                                                                                                                                                                         | <b>SER #</b>     |  |
| <b>RPM</b>                                                                                     |                                                                                                                                                                         | <b>DESIGN</b>    |  |
| <b>VOLT</b>                                                                                    |                                                                                                                                                                         | <b>FRAME</b>     |  |
|  <b>FLA</b> |                                                                                                                                                                         | <b>ENCL / IP</b> |  |
| <b>SF</b>                                                                                      |                                                                                                                                                                         | <b>DUTY</b>      |  |
| <b>KVA CODE</b>                                                                                |                                                                                                                                                                         | <b>INS CL</b>    |  |
| <b>NOM.EFF</b>                                                                                 |                                                                                                                                                                         | <b>AMB</b>       |  |
| <b>EFF 75%</b>                                                                                 |                                                                                                                                                                         | <b>DE</b>        |  |
| <b>PF</b>                                                                                      |                                                                                                                                                                         | <b>ODE</b>       |  |
| <b>USABLE AT 208V</b>                                                                          |                                                                                                                                                                         | <b>WEIGHT</b>    |  |
|                                                                                                | <div style="display: flex; align-items: center; justify-content: center;">  </div> |                  |  |

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

**MADE IN CHINA**

Energy Efficient

Energy Efficient

| 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

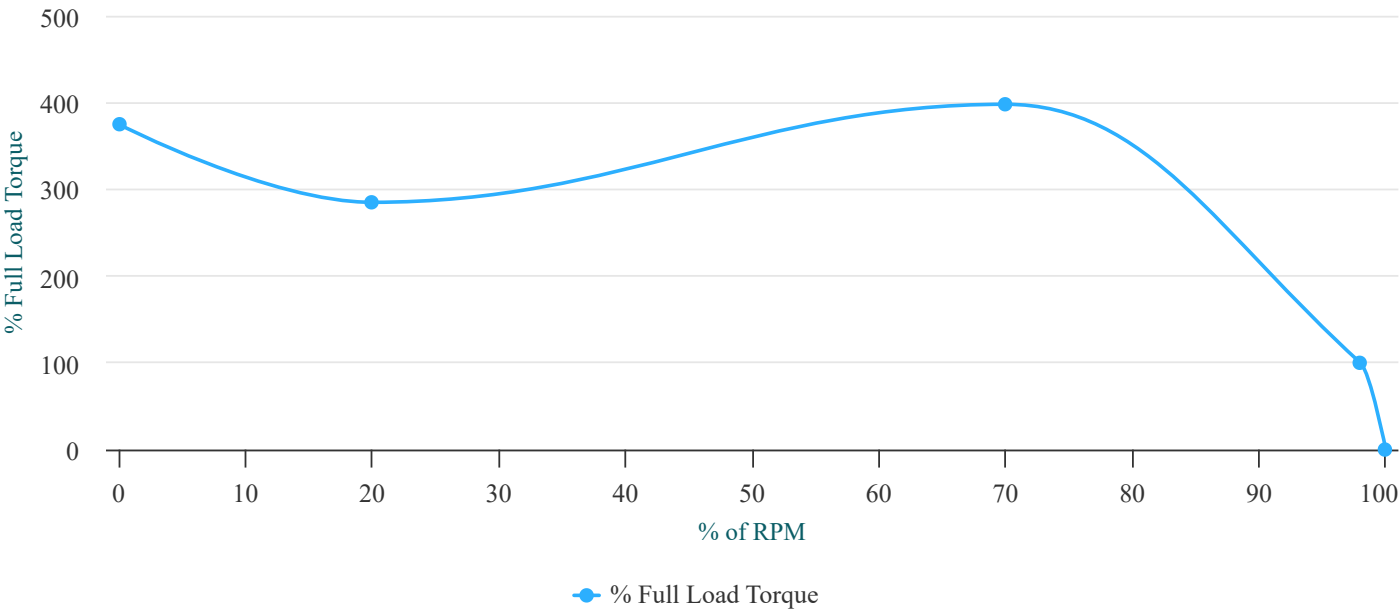
| HAZARDOUS LOCATIONS | CSA CERTIFIED        |
|---------------------|----------------------|
| Class / Division    | Class I, Division II |
| Groups              | A, B, C & D          |

Questions? Call 1.888.286.1820

**NEMA**

**Model JEP0052DP**  
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**Torque Speed (T-n) Curve**



**PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz**

| TORQUE VALUES       | TORQUE (lb-ft) | TORQUE (% FULL LOAD) |
|---------------------|----------------|----------------------|
| Locked Rotor Torque | 7.5            | 375                  |
| Pull-Up Torque      | 21.4           | 285                  |
| Breakdown Torque    | 29.9           | 398                  |
| Full Load Torque    | 28.1           | 100                  |

**TYPICAL PERFORMANCE - NOT GUARANTEED VALUES**

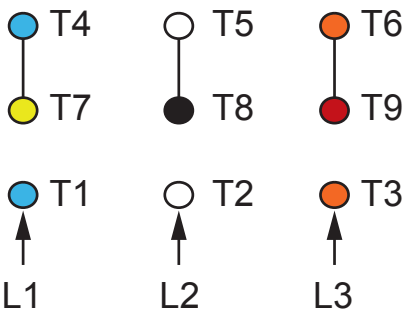
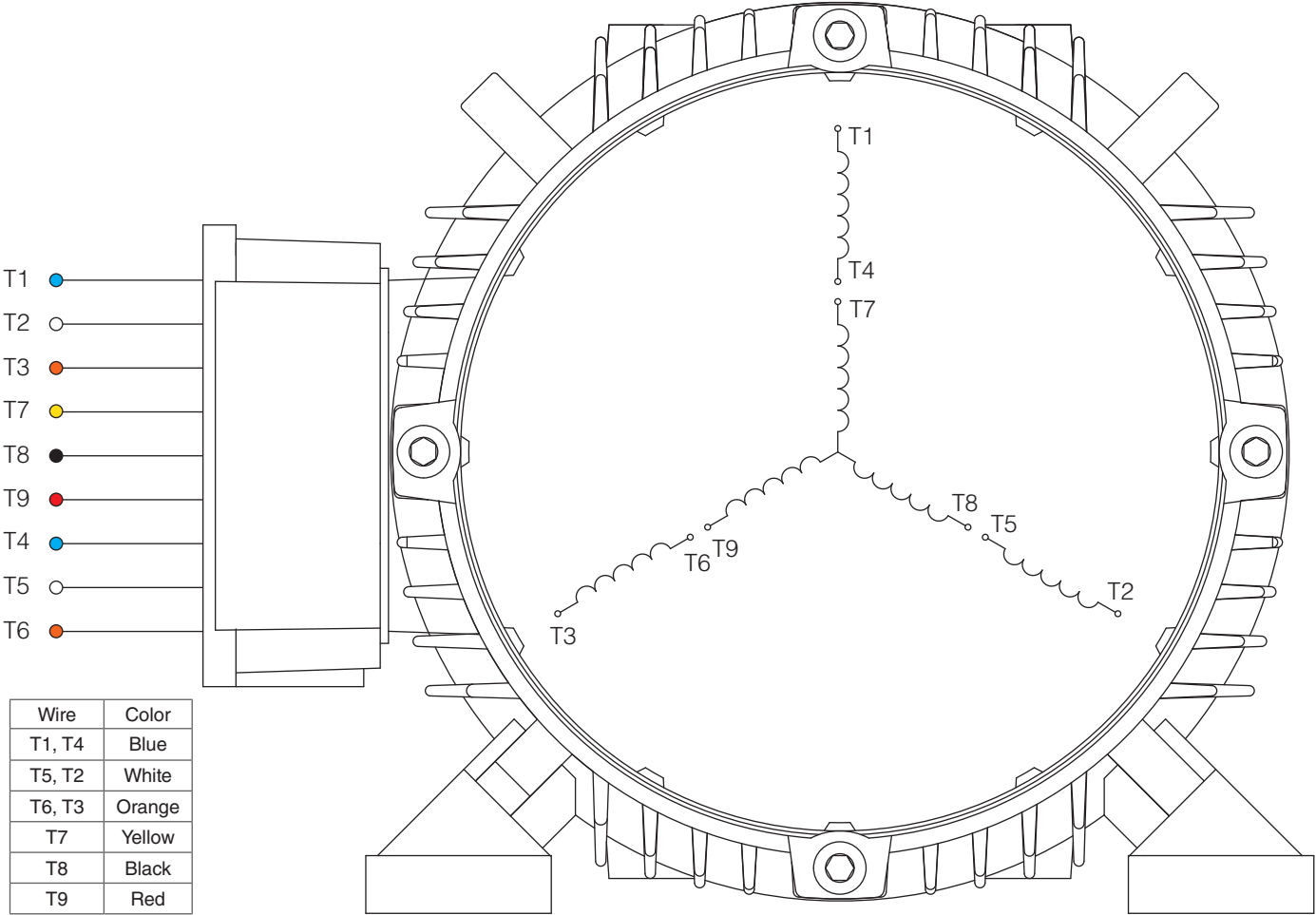
| PERFORMANCE VALUES   |       |
|----------------------|-------|
| Start Configuration  | DOL   |
| Starting Current (A) | 60.77 |
| No-Load Current (A)  | -     |
| No-Load Power Factor | -     |

| % OF RATED LOAD     | 25     | 50     | 75     | 100    | 125    | S.F. 1.25 |
|---------------------|--------|--------|--------|--------|--------|-----------|
| Line Amperes (A)    | 2.9    | 3.8    | 4.8    | 6.1    | 7.5    | 7.5       |
| Efficiency (%)      | 83.4   | 88.6   | 89.4   | 88.8   | 87.6   | 87.6      |
| Speed (r/min)       | 3577   | 3556   | 3533   | 3508   | 3480   | 3480      |
| Power Factor (cosΦ) | 0.48   | 0.71   | 0.82   | 0.87   | 0.9    | 0.9       |
| Input Power (kW)    | 1124.7 | 2115.6 | 3145.4 | 4222.1 | 5353.1 | 5353.1    |

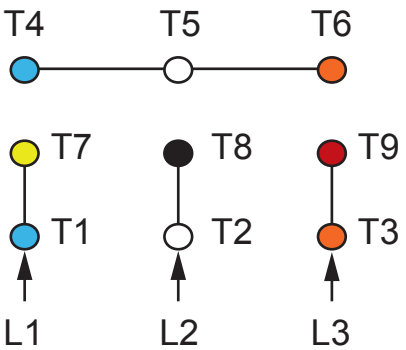
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Model JEP0052DP  
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HIGH VOLTAGE  
(Y)



LOW VOLTAGE  
(YY)

- 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



NEMA 3Ø YY/Y 9-Lead Dual Voltage

|                     |               |                             |          |
|---------------------|---------------|-----------------------------|----------|
| DRAWING NUMBER:     | NEMA-3-9-YY-Y | ISSUED DATE                 | 04/08/25 |
| CONNECTION:         | YY/Y          | PREMIUM 56J JET PUMP MOTORS |          |
| NUMBER OF LEADS:    | 9             |                             |          |
| THERMAL PROTECTION: | -             |                             |          |



## NEMA Premium TEFC L56HJ

|                  |                 |                             |          |
|------------------|-----------------|-----------------------------|----------|
| DRAWING NUMBER:  | GR3-AL-TF-L56HJ | ISSUED DATE                 | 04/08/25 |
| DIMENSIONS:      | Inches          |                             |          |
| MOUNTING:        | Rigid/C-Flange  | PREMIUM 56J JET PUMP MOTORS |          |
| CASING MATERIAL: | Cast Aluminum   |                             |          |