

**NEMA**

**Model JPC0154FP**  
MFG PN: T254T 15U4B

# Model JPC0154FP

## Product Data Package



| MODEL     | HP | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-----------|----|------|---------|-------|----|-------|----------------|-----------|
| JPC0154FP | 15 | 1770 | 575     | 3     | 60 | 254JP | Rigid/C-Flange | TEFC      |

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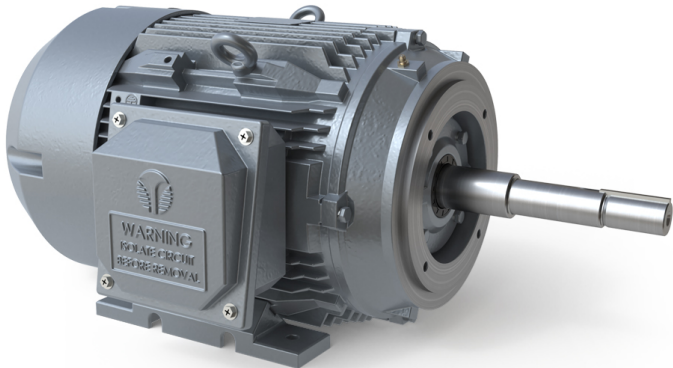
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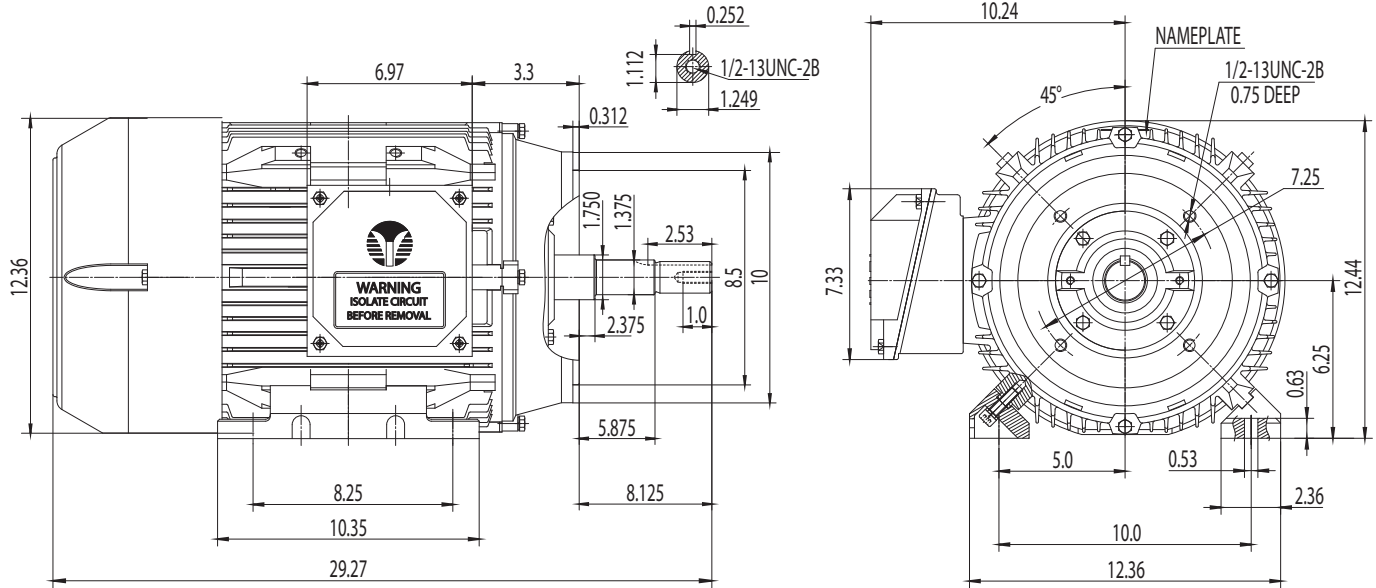
| ELECTRICAL DATA                     |        |                            |
|-------------------------------------|--------|----------------------------|
| Rated Motor Output Power            | 15     | HP                         |
|                                     | -      | kW                         |
| Rated Motor Speed                   | 1770   | r/min 60Hz                 |
|                                     | -      | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 575    | V/60Hz                     |
|                                     | -      | V/50Hz                     |
| Rated Motor Current                 | 14.14  | A (I <sub>n</sub> ) @ 60Hz |
|                                     | -      | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3      | Ø                          |
| Locked Rotor Current @ High Voltage | 126.4  | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | -      | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25   | @ 60Hz                     |
|                                     | -      | @ 50Hz                     |
| KVA Code                            | J      | 60Hz                       |
|                                     | -      | 50Hz                       |
| Nominal Efficiency                  | 92.4   | % @ 60Hz                   |
| Nominal Power Factor                | 0.86   | cosΦ @ 60Hz                |
| Leads (Qty, Size)                   | 6      | 14                         |
| Connection                          | D      | -                          |
| Coil Resistance                     | 25.5   | Ω                          |
| Start Capacitor                     | -      | µF/V                       |
| Run Capacitor                       | -      | µF/V                       |
| VFD DUTY (S.F. 1.0)                 | RATIO  | Hz                         |
| Variable Torque                     | 1000:1 | 0.06 - 60                  |
| Constant Torque                     | 15:1   | 4 - 60                     |
| FULL LOAD TEMPERATURE RISE          |        |                            |
| Full Load Temperature Rise          | 30.1   | °C @ 60Hz                  |
|                                     | 53.1   | °C @ 50Hz                  |

| GENERAL DATA                        |                  |           |
|-------------------------------------|------------------|-----------|
| Frame Size                          | 254JP            |           |
| Enclosure                           | TEFC             |           |
| Mounting                            | Rigid/C-Flange   |           |
| Approximate Weight (lbs.)           | 295.9 lbs.       |           |
| Casing Material / Fan Cover         | Cast Iron        | Cast Iron |
| Shaft Material                      | 304 SS           |           |
| NEMA Design                         | A                |           |
| 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                     | 6309 C3          |           |
| Bearing ODE Side                    | 6309 C3          |           |
| Grease Type                         | Mobil Polyrex EM |           |
| Compensation Ring (wavy washer)     | NDE              |           |
| Moment of Inertia (lb-ft²)          | 2.22             |           |
| Sound Pressure @ 3 FT dBA           | 75.6             |           |
| SITE CONDITIONS                     |                  |           |
| Ambient Temperature (°C)            | 40               |           |
| Meters Above Sea Level (MASL)       | 1000             |           |
| HAZARDOUS LOCATIONS                 |                  |           |
| CSA Certified                       | A, B, C & D      |           |
| Temperature Code                    | T3               | -         |

**Questions? Call 1.888.286.1820**

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| NAMEPLATE DATA             | 60Hz       | 50Hz |
|----------------------------|------------|------|
| Horse Power                | 15         | -    |
| RPM                        | 1770       | -    |
| Voltage                    | 575        | -    |
| Full Load Amps             | 14.14      | -    |
| Service Factor             | 1.25       | -    |
| KVA Code                   | J          | -    |
| Full Load Amps (208V)      | -          | -    |
| Nominal Efficiency         | 92.4       | -    |
| Nominal Power Factor       | 0.86       | -    |
| Design                     | A          |      |
| Frame                      | 254JP      |      |
| Enclosure Type             | TEFC       |      |
| IP Rating                  | 55         |      |
| Duty                       | Cont. / S1 |      |
| Insulation Class           | F          |      |
| Ambient Rating             | 40         |      |
| Drive End Bearing          | 6309 C3    |      |
| Opposite Drive End Bearing | 6309 C3    |      |
| Weight (lbs)               | 295.9      |      |

#### NAMEPLATE LAYOUT

|                                                    |     |                                                                       |  |
|----------------------------------------------------|-----|-----------------------------------------------------------------------|--|
| <b>TECHTOP</b>                                     |     | INDUSTRIAL THREE PHASE PUMP MOTOR<br>INVERTER DUTY 1000:1 VT - 1.0 SF |  |
| MODEL                                              |     | TECHTOPCANADA.COM                                                     |  |
| NEMA Premium                                       |     | MFG PN                                                                |  |
| 60Hz                                               |     | 50Hz                                                                  |  |
| HP                                                 |     | MFG DATE                                                              |  |
| RPM                                                |     | SER #                                                                 |  |
| VOLT                                               |     | DESIGN                                                                |  |
| FLA                                                |     | FRAME                                                                 |  |
| SF                                                 |     | ENCL                                                                  |  |
| KVA CODE                                           |     | IP                                                                    |  |
| NOM.EFF                                            |     | DUTY                                                                  |  |
| BEARING SIZE                                       |     | INS CL                                                                |  |
| DE                                                 | ODE | AMB                                                                   |  |
| GREASE: MOBIL POLYREX EM                           |     | WEIGHT                                                                |  |
| MADE IN CHINA CLASS 1, DIV 2, GROUPS A, B, C AND D |     | IEEE 45 MARINE DUTY                                                   |  |

#### VFD DUTY (S.F. 1.0)

Variable Torque  
Constant Torque

#### RATIO

1000:1  
15:1

#### Hz\*

0.06 - 60  
4 - 60

\*For max speed please contact Techtop Canada

#### HAZARDOUS LOCATIONS

Class / Division  
Groups

#### CSA CERTIFIED

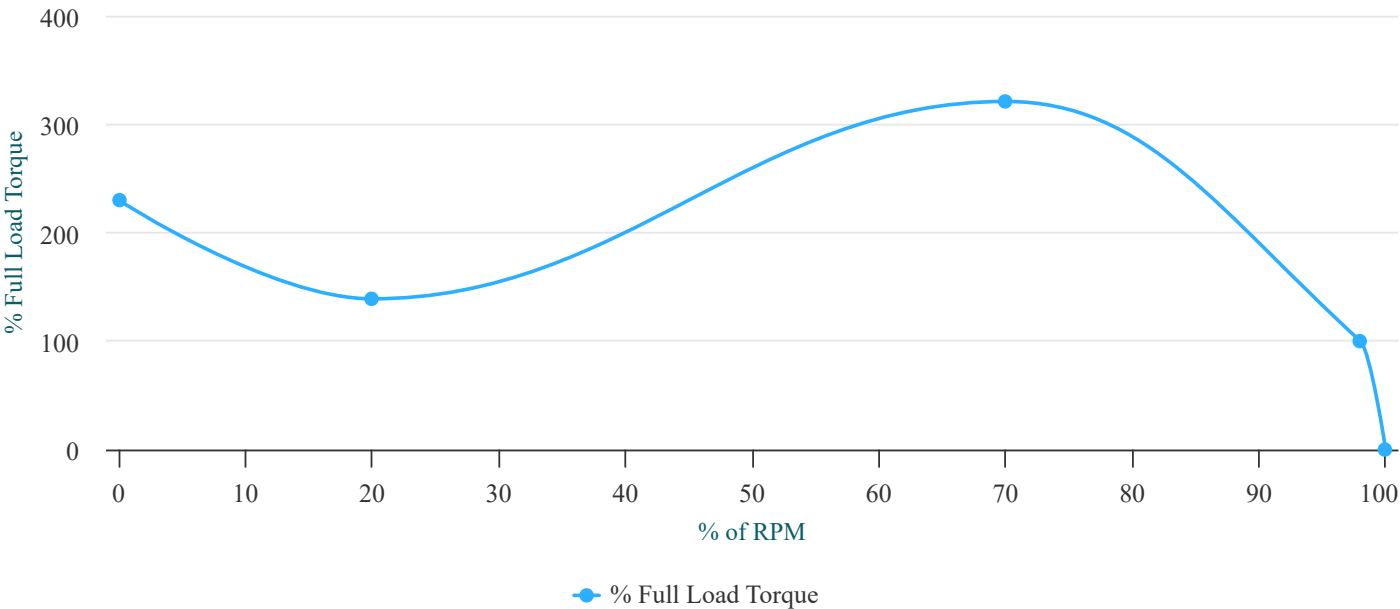
Class I, Div. 2  
A, B, C & D

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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 | 102.4          | 230                  | Start Configuration  | DOL   |
| Pull-Up Torque      | 61.9           | 139                  | Starting Current (A) | 126.4 |
| Breakdown Torque    | 142.9          | 321                  | No-Load Current (A)  | 6.4   |
| Full Load Torque    | 44.5           | 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)    | 7.2  | 9.1  | 11.5 | 14.4  | 17.6  | 17.6      |
| Efficiency (%)      | 87   | 91.5 | 92.4 | 92.2  | 91.6  | 91.6      |
| Speed (r/min)       | 1795 | 1789 | 1784 | 1777  | 1770  | 1770      |
| Power Factor (cosΦ) | 0.44 | 0.67 | 0.78 | 0.83  | 0.86  | 0.86      |
| Input Power (kW)    | 3.16 | 6.01 | 8.93 | 11.93 | 15.02 | 15.02     |

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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-3-6-D |
| CONNECTION:         | D          |
| NUMBER OF LEADS:    | 6          |
| THERMAL PROTECTION: | -          |

NEMA 3Ø D 6-Lead Single Voltage

|                           |          |
|---------------------------|----------|
| ISSUED DATE               | 08/09/25 |
| PREMIUM JM-JP PUMP MOTORS |          |



## NEMA Premium TEFC 254JP

|                  |                     |                           |          |
|------------------|---------------------|---------------------------|----------|
| DRAWING NUMBER:  | GR3-CI-TF-254JP-CFC | ISSUED DATE               | 08/09/25 |
| DIMENSIONS:      | Inches              |                           |          |
| MOUNTING:        | Rigid/C-Flange      | PREMIUM JM-JP PUMP MOTORS |          |
| CASING MATERIAL: | Cast Iron           |                           |          |