



# Pump Motors

# NEMA

|                      |                         |
|----------------------|-------------------------|
| <b>MOTOR MODEL:</b>  | GR3-AL-TF-182JP-2-B-D-3 |
| <b>FACTORY TYPE:</b> | TXA                     |

## Premium NEMA Cast Aluminum, TEFC

| ELECTRICAL DATA              |              |           |
|------------------------------|--------------|-----------|
|                              | 60 Hz        | 50 Hz     |
| Horsepower                   | 3.0          | 3.0       |
| Speed, RPM                   | 3515         | 2900      |
| Voltage                      | 230/460      | 190/380   |
| # Phase                      | 3            |           |
| Full Load Amps               | 7.17/3.59    | 8.38/4.19 |
| Power Factor                 | 0.89         | -         |
| Nominal Efficiency           | 86.5         | 86.2      |
| 3/4 Load Efficiency          | -            | -         |
| Service Factor               | 1.25         | 1.0       |
| KVA Code                     | K            | H         |
| FL Amps. @ 208 V             | 7.77         | -         |
| Locked Rotor Current         | 33.3216      | -         |
| Start Capacitor              | -            |           |
| Start Capacitor V            | -            |           |
| Run Capacitor                | -            |           |
| Run Capacitor V              | -            |           |
| Number of Leads              | 9            |           |
| Connection                   | YY/Y         |           |
| Coil Resistance              | -            |           |
|                              |              |           |
| Load                         | Efficiency % | P.F.      |
| 50%                          | 84.23        | 0.77      |
| 75%                          | 86.43        | 0.86      |
| 100%                         | 86.72        | 0.9       |
|                              |              |           |
| FULL LOAD TEMPERATURE RISE   |              |           |
| FL Temp Rise °C              | 37.0         | 37.0      |
|                              |              |           |
| 3D Image Link                |              |           |
| Not available for this motor |              |           |

| GENERAL DATA                               |               |              |       |
|--|---------------|--------------|-------|
| Frame Size                                 | 182JP         |              |       |
| Frame Enclosure                            | TEFC          |              |       |
| Mounting                                   | Rigid         |              |       |
| Insulation Class                           | F             |              |       |
| Duty                                       | Cont. / S1    |              |       |
| NEMA Design                                | A             |              |       |
| Frame Material                             | Cast Aluminum |              |       |
| Ingress Protection                         | 55            |              |       |
| Tropicalization                            | true          |              |       |
| Cable Entry                                | 1-NPT 3/4"    |              |       |
| Feet Removable                             | true          |              |       |
| Double Drilled                             | -             |              |       |
| Paint Color                                | Graphite Gray |              |       |
| Paint RAL                                  | 7024          |              |       |
| Weight lb                                  | 50.0          |              |       |
|  |               |              |       |
| MECHANICAL DATA                            |               |              |       |
| DE Bearing                                 | 6306ZZ        |              |       |
| NDE Bearing                                | 6206ZZ        |              |       |
| dB No-Load                                 | -             |              |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |              |       |
| Comp Ring (wavy washer)                    | NDE           |              |       |
|  |               |              |       |
| TORQUE VALUES                              |               | Torque lb-ft | % FLT |
| Locked Rotor Torque                        | 11.1842       | 254.0        |       |
| Pull-Up Torque                             | 5.54809       | 126.0        |       |
| Breakdown Torque                           | 15.6315       | 355.0        |       |
| Full Load Torque                           | 4.40325       | 100.0        |       |
|  |               |              |       |
| SITE CONDITIONS                            |               |              |       |
| Ambient Temp °C                            | 40            |              |       |
| Altitude Above Sea Level m                 | 1000          |              |       |



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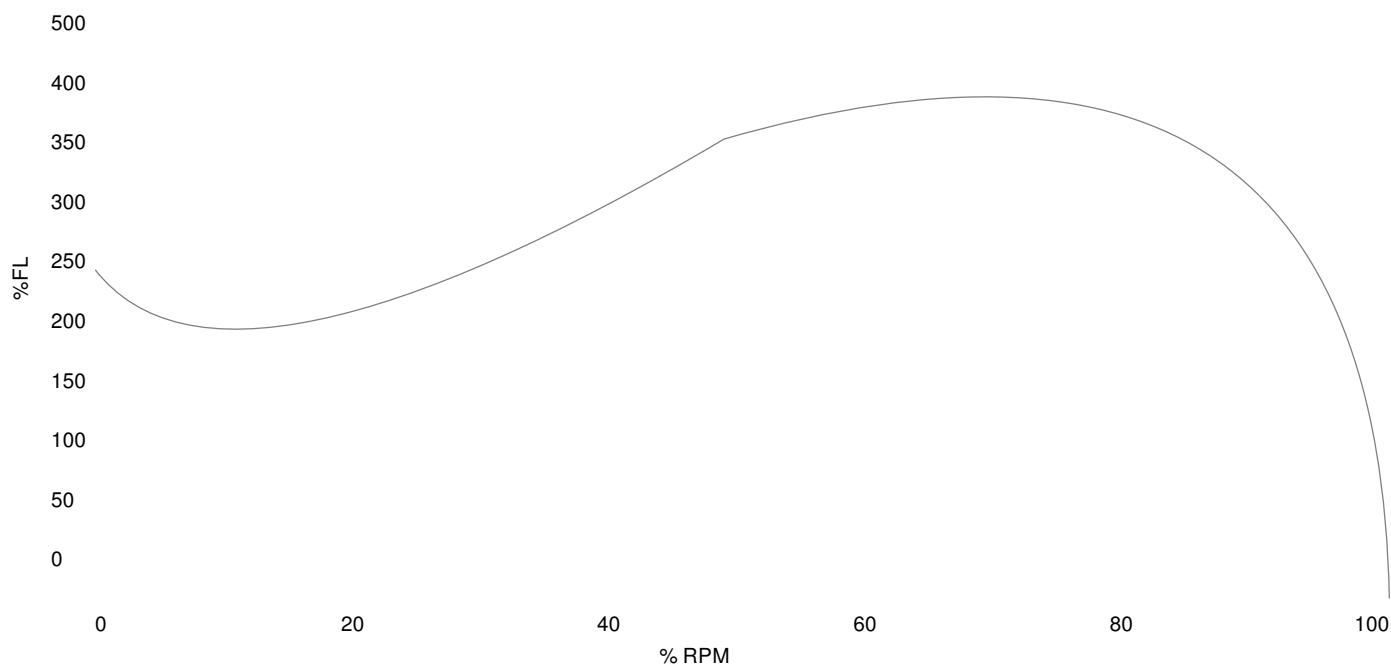
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### Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 3.0HP, 3515 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 11.1842      | 254.0 | Start Configuration  |
| Pull-Up Torque      | 5.54809      | 126.0 | Starting Current (A) |
| Breakdown Torque    | 15.6315      | 355.0 | No-Load Current (A)  |
| Full Load           | 4.40325      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 1.31          | -                      | -          | -          | -    |
| 25     | 0.75       | 1.58          | 723.3                  | 3579.3     | 76.04      | 0.58 |
| 50     | 1.5        | 2.13          | 1306.0                 | 3561.2     | 84.23      | 0.77 |
| 75     | 2.25       | 2.79          | 1909.0                 | 3541.2     | 86.43      | 0.86 |
| 100    | 3.0        | 3.56          | 2537.0                 | 3519.6     | 86.72      | 0.9  |
| 125    | 3.75       | 4.39          | 3194.0                 | 3496.3     | 86.1       | 0.91 |

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