



# Pump Motors

# NEMA

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-254JM-2-BR-D-15 |
| <b>FACTORY TYPE:</b> | TXC                       |

## Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |                     |             |
|------------------------------|---------------------|-------------|
|                              | 60 Hz               | 50 Hz       |
| Horsepower                   | 15.0                | 15.0        |
| Speed, RPM                   | 3540                | 2920        |
| Voltage                      | 230/460             | 190/380     |
| # Phase                      | 3                   |             |
| Full Load Amps               | 35.08/17.54         | 45.2/22.6   |
| Power Factor                 | 0.88                | -           |
| Nominal Efficiency           | 91.0                | 88.0        |
| 3/4 Load Efficiency          | -                   | -           |
| Service Factor               | 1.25                | 1.0         |
| KVA Code                     | L                   | F           |
| FL Amps. @ 208 V             | 38.7866             | -           |
| Locked Rotor Current         | 208.506             | -           |
| Start Capacitor              | -                   |             |
| Start Capacitor V            | -                   |             |
| Run Capacitor                | -                   |             |
| Run Capacitor V              | -                   |             |
| Number of Leads              | 12                  |             |
| Connection                   | DD/D                |             |
| Coil Resistance              | -                   |             |
|                              |                     |             |
| <b>Load</b>                  | <b>Efficiency %</b> | <b>P.F.</b> |
| 50%                          | 87.1                | 0.71        |
| 75%                          | 89.66               | 0.81        |
| 100%                         | 90.53               | 0.86        |
|                              |                     |             |
| FULL LOAD TEMPERATURE RISE   |                     |             |
| FL Temp Rise °C              | 52.0                | -           |
|                              |                     |             |
| 3D Image Link                |                     |             |
| Not available for this motor |                     |             |

| GENERAL DATA               |               |       |
|----------------------------|---------------|-------|
| Frame Size                 | 254JM         |       |
| Frame Enclosure            | TEFC          |       |
| Mounting                   | Rigid         |       |
| Insulation Class           | F             |       |
| Duty                       | Cont. / S1    |       |
| NEMA Design                | A             |       |
| Frame Material             | Cast Iron     |       |
| Ingress Protection         | 55            |       |
| Tropicalization            | true          |       |
| Cable Entry                | 1-NPT 1-1/4"  |       |
| Feet Removable             | true          |       |
| Double Drilled             | -             |       |
| Paint Color                | Graphite Gray |       |
| Paint RAL                  | 7024          |       |
| Weight lb                  | 254.678       |       |
|                            |               |       |
| MECHANICAL DATA            |               |       |
| DE Bearing                 | 6309C3        |       |
| NDE Bearing                | 6309C3        |       |
| dB No-Load                 | -             |       |
| Rotor Wk², Lb-Ft²          | -             |       |
| Comp Ring (wavey washer)   | NDE           |       |
|                            |               |       |
| TORQUE VALUES              |               |       |
|                            | Torque lb-ft  | % FLT |
| Locked Rotor Torque        | 75.0398       | 337.0 |
| Pull-Up Torque             | 42.9753       | 193.0 |
| Breakdown Torque           | 88.1773       | 396.0 |
| Full Load Torque           | 22.267        | 100.0 |
|                            |               |       |
| SITE CONDITIONS            |               |       |
| Ambient Temp °C            | 40            |       |
| Altitude Above Sea Level m | 1000          |       |



## Pump Motors

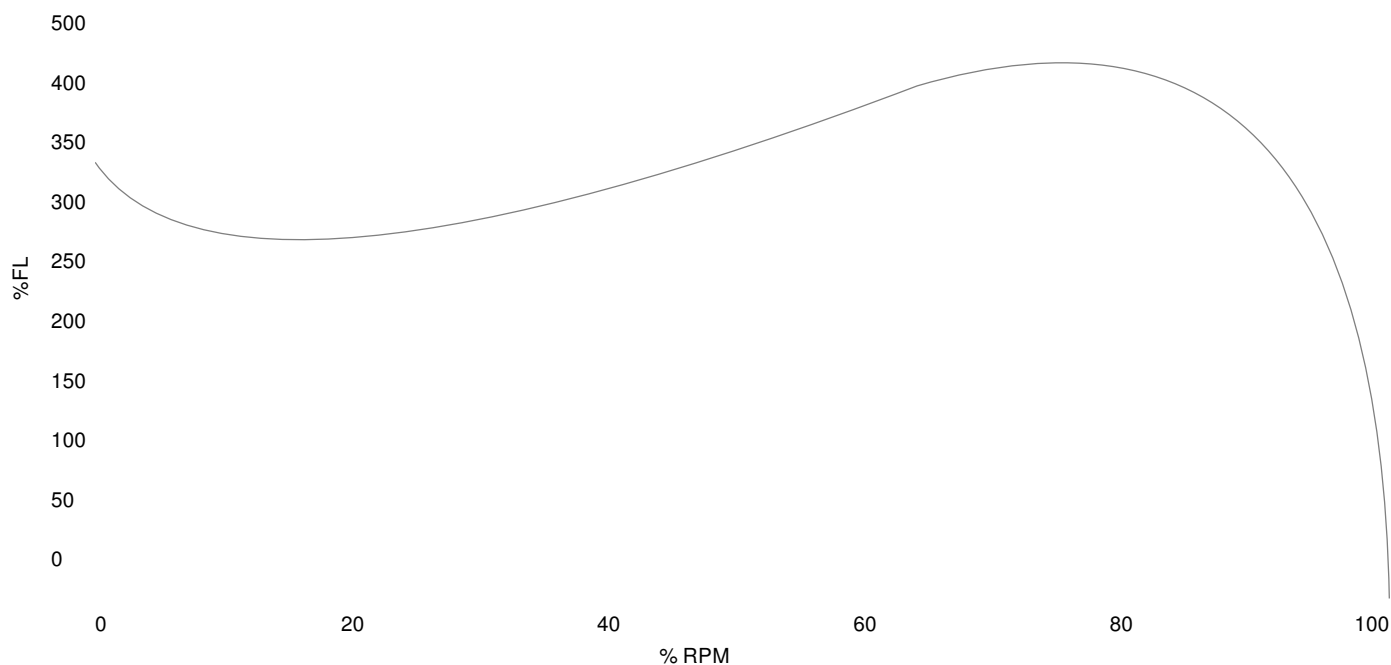
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### Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 15.0HP, 3540 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 75.0398      | 337.0 | Start Configuration  |
| Pull-Up Torque      | 42.9753      | 193.0 | Starting Current (A) |
| Breakdown Torque    | 88.1773      | 396.0 | No-Load Current (A)  |
| Full Load           | 22.267       | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 8.01          | -                      | -          | -          | -    |
| 25     | 3.75       | 9.11          | 3.58                   | 3592.6     | 78.93      | 0.49 |
| 50     | 7.5        | 11.59         | 6.49                   | 3585.6     | 87.1       | 0.71 |
| 75     | 11.25      | 14.7          | 9.45                   | 3578.2     | 89.66      | 0.81 |
| 100    | 15.0       | 18.29         | 12.48                  | 3570.4     | 90.53      | 0.86 |
| 125    | 18.75      | 22.21         | 15.58                  | 3562.3     | 90.67      | 0.88 |

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