



## Pump Motors

# NEMA

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-286JM-2-BR-D-30 |
| <b>FACTORY TYPE:</b> | TXC                       |

### Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |           |
|------------------------------|--------------|-----------|
|                              | 60 Hz        | 50 Hz     |
| Horsepower                   | 30.0         | 30.0      |
| Speed, RPM                   | 3550         | 2930      |
| Voltage                      | 230/460      | 190/380   |
| # Phase                      | 3            |           |
| Full Load Amps               | 70.42/35.21  | 83.8/41.9 |
| Power Factor                 | 0.9          | -         |
| Nominal Efficiency           | 91.7         | 89.0      |
| 3/4 Load Efficiency          | -            | -         |
| Service Factor               | 1.25         | 1.0       |
| KVA Code                     | L            | F         |
| FL Amps. @ 208 V             | 77.8659      | -         |
| Locked Rotor Current         | 355.585      | -         |
| Start Capacitor              | -            |           |
| Start Capacitor V            | -            |           |
| Run Capacitor                | -            |           |
| Run Capacitor V              | -            |           |
| Number of Leads              | 12           |           |
| Connection                   | DD/D         |           |
| Coil Resistance              | -            |           |
|                              |              |           |
|                              |              |           |
| Load                         | Efficiency % | P.F.      |
| 50%                          | 90.04        | 0.77      |
| 75%                          | 91.7         | 0.85      |
| 100%                         | 92.09        | 0.88      |
|                              |              |           |
| FULL LOAD TEMPERATURE RISE   |              |           |
| FL Temp Rise °C              | 64.0         | -         |
|                              |              |           |
| 3D Image Link                |              |           |
| Not available for this motor |              |           |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 286JM         |       |
| 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 1-1/2"  |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | true          |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 374.85        |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6311C3        |       |
| NDE Bearing                                | 6311C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavey washer)                   | NDE           |       |
|  |               |       |
| TORQUE VALUES                              | Torque lb-ft  | % FLT |
| Locked Rotor Torque                        | 144.75        | 323.0 |
| Pull-Up Torque                             | 82.0101       | 183.0 |
| Breakdown Torque                           | 166.709       | 372.0 |
| Full Load Torque                           | 44.8143       | 100.0 |
|  |               |       |
| SITE CONDITIONS                            |               |       |
| Ambient Temp °C                            | 40            |       |
| Altitude Above Sea Level m                 | 1000          |       |



## Pump Motors

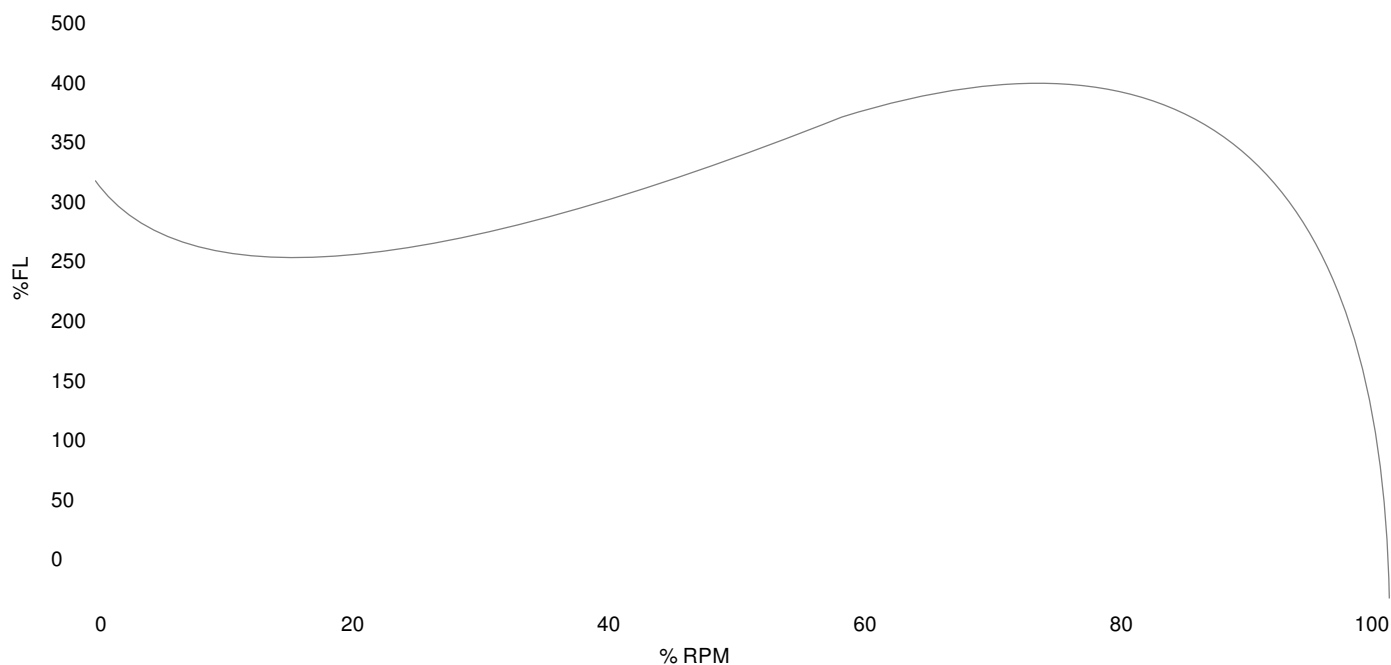
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### Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 30.0HP, 3550 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 144.75       | 323.0 | Start Configuration  |
| Pull-Up Torque      | 82.0101      | 183.0 | Starting Current (A) |
| Breakdown Torque    | 166.709      | 372.0 | No-Load Current (A)  |
| Full Load           | 44.8143      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 12.06         | -                      | -          | -          | -    |
| 25     | 7.5        | 14.45         | 6.67                   | 3589.1     | 84.0       | 0.58 |
| 50     | 15.0       | 20.37         | 12.44                  | 3579.5     | 90.04      | 0.77 |
| 75     | 22.5       | 27.14         | 18.32                  | 3569.0     | 91.7       | 0.85 |
| 100    | 30.0       | 34.59         | 24.32                  | 3557.8     | 92.09      | 0.88 |
| 125    | 37.5       | 42.59         | 30.46                  | 3545.9     | 91.92      | 0.9  |

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