



## Pump Motors

# NEMA

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-256JM-4-BR-D-20 |
| <b>FACTORY TYPE:</b> | TXC                       |

### Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |         |
|------------------------------|--------------|---------|
|                              | 60 Hz        | 50 Hz   |
| Horsepower                   | 20.0         | 20.0    |
| Speed, RPM                   | 1760         | 1450    |
| Voltage                      | 230/460      | 190/380 |
| # Phase                      | 3            |         |
| Full Load Amps               | 45.76/22.88  | 58/29   |
| Power Factor                 | 0.83         | -       |
| Nominal Efficiency           | 93.0         | 88.0    |
| 3/4 Load Efficiency          | -            | -       |
| Service Factor               | 1.25         | 1.0     |
| KVA Code                     | K            | F       |
| FL Amps. @ 208 V             | 50.6033      | -       |
| LRC @ 60Hz HV                | 211.318      | -       |
| Start Capacitor              | -            |         |
| Start Capacitor V            | -            |         |
| Run Capacitor                | -            |         |
| Run Capacitor V              | -            |         |
| Number of Leads              | 12           |         |
| Connection                   | DD/D         |         |
| Coil Resistance              | -            |         |
| Date Code                    | -            |         |
|                              |              |         |
| Load                         | Efficiency % | P.F.    |
| 50%                          | 91.95        | 0.74    |
| 75%                          | 92.77        | 0.83    |
| 100%                         | 92.58        | 0.87    |
|                              |              |         |
| FULL LOAD TEMPERATURE RISE   |              |         |
| FL Temp Rise °C              | 51.0         | -       |
|                              |              |         |
| 3D Image Link                |              |         |
| Not available for this motor |              |         |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 256JM         |       |
| 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                             | true          |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 330.75        |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6309C3        |       |
| NDE Bearing                                | 6309C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavey washer)                   | NDE           |       |
|  |               |       |
| TORQUE VALUES                              |               | % FLT |
| Locked Rotor Torque                        | 166.907       | 280.0 |
| Pull-Up Torque                             | 122.796       | 206.0 |
| Breakdown Torque                           | 209.826       | 352.0 |
| Full Load Torque                           | 59.6098       | 100.0 |
|  |               |       |
| SITE CONDITIONS                            |               |       |
| Ambient Temp °C                            | 40            |       |
| Altitude Above Sea Level m                 | 1000          |       |

\*This report valid for above Date Code and newer models, please contact Techtop for more info.



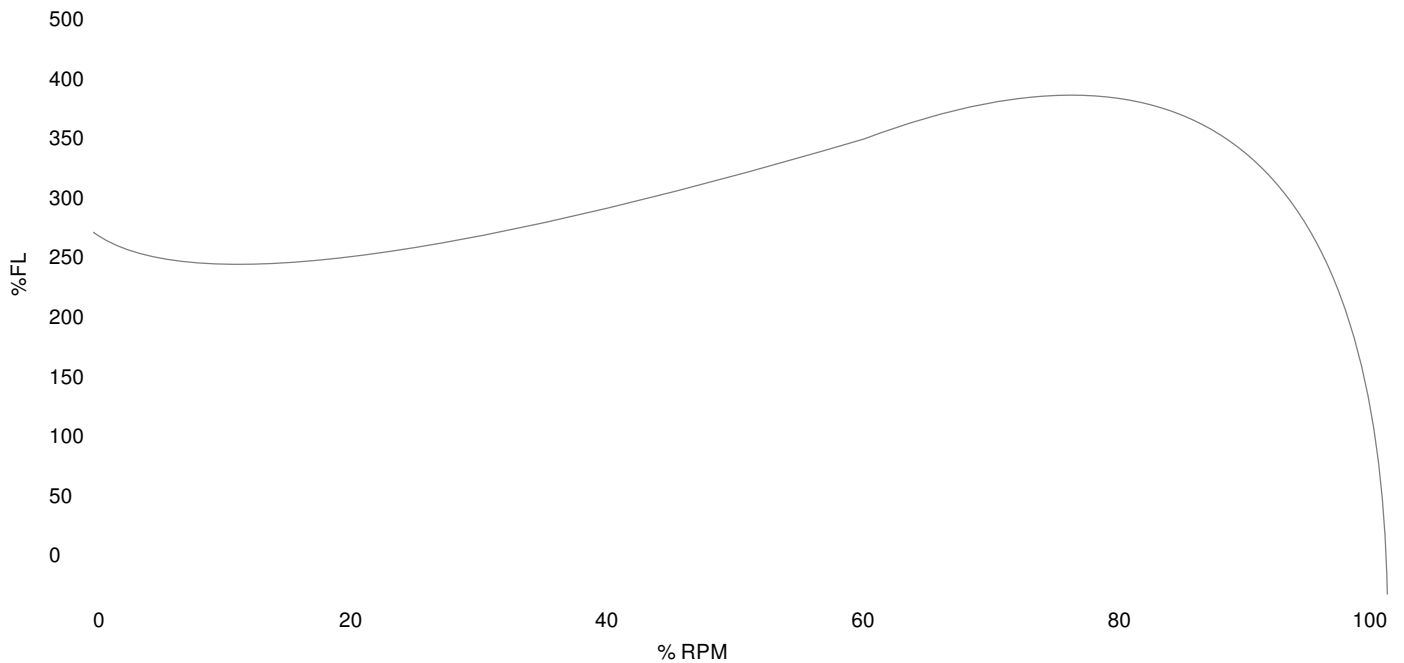
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### Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |   |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 166.907      | 280.0 | Start Configuration  | - |
| Pull-Up Torque      | 122.796      | 206.0 | Starting Current (A) | - |
| Breakdown Torque    | 209.826      | 352.0 | No-Load Current (A)  | - |
| Full Load           | 59.6098      | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 8.72          | -                      | -          | -          | -    |
| 25     | 5.0        | 10.25         | 4.28                   | 1793.3     | 87.68      | 0.52 |
| 50     | 10.0       | 13.84         | 8.16                   | 1786.6     | 91.95      | 0.74 |
| 75     | 15.0       | 18.28         | 12.13                  | 1779.4     | 92.77      | 0.83 |
| 100    | 20.0       | 23.35         | 16.2                   | 1771.7     | 92.58      | 0.87 |
| 125    | 25.0       | 28.86         | 20.39                  | 1763.5     | 91.95      | 0.89 |

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