



# Pump Motors

# NEMA

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-324JM-2-BR-D-40 |
| <b>FACTORY TYPE:</b> | TXC                       |

## Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |         |
|------------------------------|--------------|---------|
|                              | 60 Hz        | 50 Hz   |
| Horsepower                   | 40.0         | 40.0    |
| Speed, RPM                   | 3560         | 2940    |
| Voltage                      | 230/460      | 190/380 |
| # Phase                      | 3            |         |
| Full Load Amps               | 90.07/45.04  | 112/56  |
| Power Factor                 | 0.89         | -       |
| Nominal Efficiency           | 92.4         | 90.0    |
| 3/4 Load Efficiency          | -            | -       |
| Service Factor               | 1.25         | 1.0     |
| KVA Code                     | H            | F       |
| FL Amps. @ 208 V             | 99.6002      | -       |
| LRC @ 60Hz HV                | 344.434      | -       |
| 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%                          | 90.37        | 0.82    |
| 75%                          | 91.99        | 0.88    |
| 100%                         | 92.34        | 0.9     |
|                              |              |         |
| FULL LOAD TEMPERATURE RISE   |              |         |
| FL Temp Rise °C              | 67.0         | -       |
|                              |              |         |
| 3D Image Link                |              |         |
| Not available for this motor |              |         |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 324JM         |       |
| 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 2"      |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | -             |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 485.1         |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6312C3        |       |
| NDE Bearing                                | 6312C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavey washer)                   | NDE           |       |
|  |               |       |
| TORQUE VALUES                              |               | % FLT |
| Locked Rotor Torque                        | 140.239       | 235.0 |
| Pull-Up Torque                             | 74.5952       | 125.0 |
| Breakdown Torque                           | 140.836       | 236.0 |
| Full Load Torque                           | 59.6762       | 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 Techttop for more info.



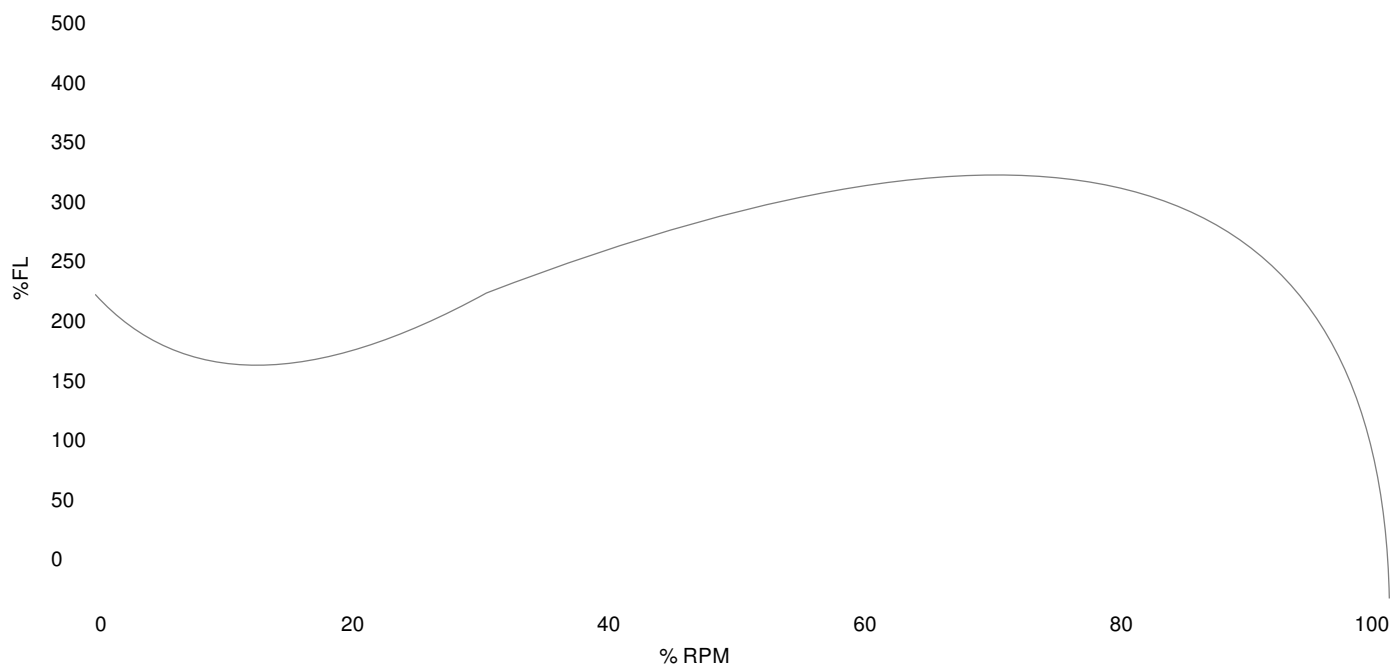
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### Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 140.239      | 235.0 | Start Configuration  |
| Pull-Up Torque      | 74.5952      | 125.0 | Starting Current (A) |
| Breakdown Torque    | 140.836      | 236.0 | No-Load Current (A)  |
| Full Load           | 59.6762      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 12.48         | -                      | -          | -          | -    |
| 25     | 10.0       | 16.87         | 8.88                   | 3588.8     | 84.46      | 0.66 |
| 50     | 20.0       | 25.43         | 16.6                   | 3578.7     | 90.37      | 0.82 |
| 75     | 30.0       | 35.03         | 24.46                  | 3567.6     | 91.99      | 0.88 |
| 100    | 40.0       | 45.56         | 32.49                  | 3555.4     | 92.34      | 0.9  |
| 125    | 50.0       | 56.88         | 40.71                  | 3542.2     | 92.13      | 0.9  |