



## Pump Motors

# NEMA

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-364JM-4-BR-D-60 |
| <b>FACTORY TYPE:</b> | TXC                       |

### Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |         |
|------------------------------|--------------|---------|
|                              | 60 Hz        | 50 Hz   |
| Horsepower                   | 60.0         | 60.0    |
| Speed, RPM                   | 1775         | 1465    |
| Voltage                      | 230/460      | 190/380 |
| # Phase                      | 3            |         |
| Full Load Amps               | 135.94/67.97 | 166/83  |
| Power Factor                 | 0.86         | -       |
| Nominal Efficiency           | 95.0         | 92.5    |
| 3/4 Load Efficiency          | -            | -       |
| Service Factor               | 1.15         | 1.0     |
| KVA Code                     | L            | F       |
| FL Amps. @ 208 V             | -            | -       |
| LRC @ 60Hz HV                | 664.692      | -       |
| 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%                          | 94.31        | 0.77    |
| 75%                          | 94.89        | 0.85    |
| 100%                         | 94.77        | 0.88    |
|                              |              |         |
| FULL LOAD TEMPERATURE RISE   |              |         |
| FL Temp Rise °C              | 55.0         | -       |
|                              |              |         |
| 3D Image Link                |              |         |
| Not available for this motor |              |         |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 364JM         |       |
| 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                             | -             |       |
| Double Drilled                             | -             |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 782.775       |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6313C3        |       |
| NDE Bearing                                | 6313C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavy washer)                    | NDE           |       |
|  |               |       |
| TORQUE VALUES                              |               | % FLT |
| Locked Rotor Torque                        | 542.343       | 306.0 |
| Pull-Up Torque                             | 368.651       | 208.0 |
| Breakdown Torque                           | 600.831       | 339.0 |
| Full Load Torque                           | 177.236       | 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.



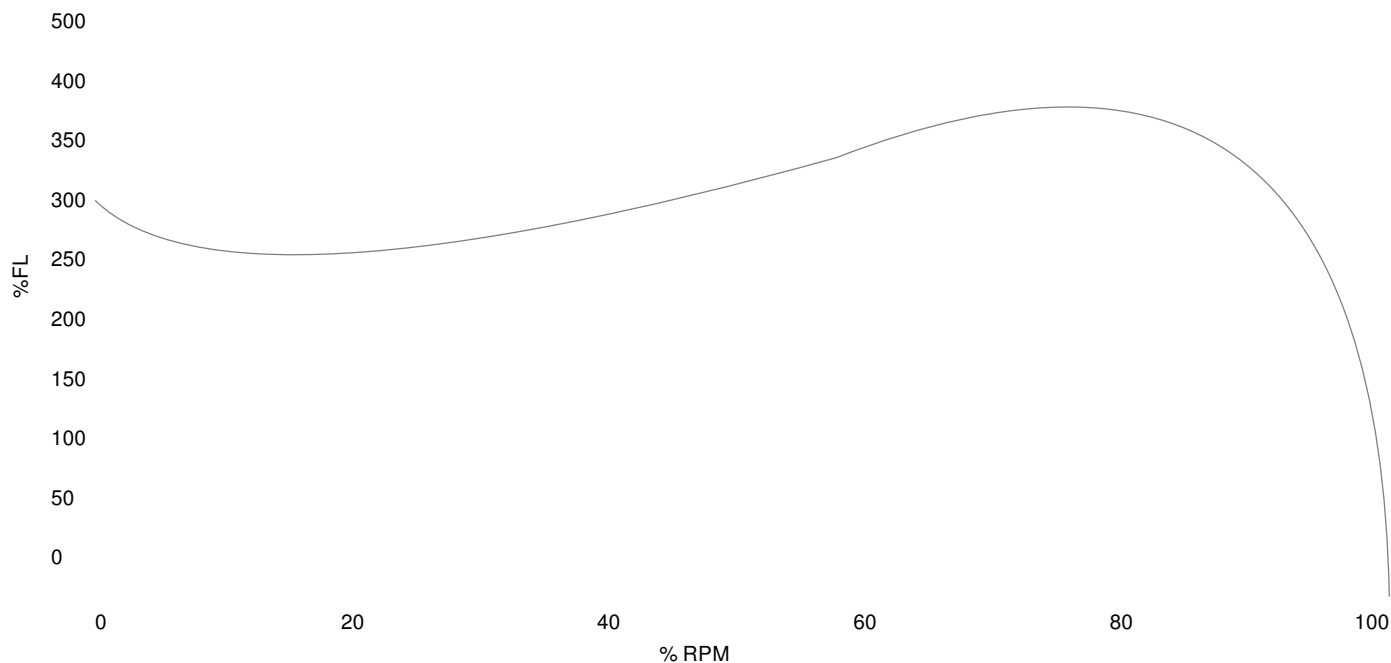
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### Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 542.343      | 306.0 | Start Configuration  |
| Pull-Up Torque      | 368.651      | 208.0 | Starting Current (A) |
| Breakdown Torque    | 600.831      | 339.0 | No-Load Current (A)  |
| Full Load           | 177.236      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 22.39         | -                      | -          | -          | -    |
| 25     | 15.0       | 27.61         | 12.34                  | 1796.1     | 91.2       | 0.56 |
| 50     | 30.0       | 38.98         | 23.86                  | 1792.3     | 94.31      | 0.77 |
| 75     | 45.0       | 52.43         | 35.57                  | 1788.2     | 94.89      | 0.85 |
| 100    | 60.0       | 67.55         | 47.48                  | 1783.9     | 94.77      | 0.88 |
| 125    | 75.0       | 83.89         | 59.63                  | 1779.4     | 94.34      | 0.89 |

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