



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-365TC-4-BR-D-75 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |           |
|------------------------------|--------------|-----------|
|                              | 60 Hz        | 50 Hz     |
| Horsepower                   | 75.0         | 75.0      |
| Speed, RPM                   | 1775         | 1465      |
| Voltage                      | 230/460      | 190/380   |
| # Phase                      | 3            |           |
| Full Load Amps               | 167.29/83.65 | 207/103.5 |
| Power Factor                 | 0.87         | -         |
| Nominal Efficiency           | 95.4         | 92.5      |
| 3/4 Load Efficiency          | -            | -         |
| Service Factor               | 1.15         | 1.0       |
| KVA Code                     | L            | F         |
| FL Amps. @ 208 V             | -            | -         |
| Locked Rotor Current         | 829.228      | -         |
| Start Capacitor              | -            |           |
| Start Capacitor V            | -            |           |
| Run Capacitor                | -            |           |
| Run Capacitor V              | -            |           |
| Number of Leads              | 12           |           |
| Connection                   | DD/D         |           |
| Coil Resistance              | -            |           |
|                              |              |           |
| Load                         | Efficiency % | P.F.      |
| 50%                          | 94.91        | 0.78      |
| 75%                          | 95.51        | 0.85      |
| 100%                         | 95.47        | 0.89      |
|                              |              |           |
| FULL LOAD TEMPERATURE RISE   |              |           |
| FL Temp Rise °C              | 62.0         | -         |
|                              |              |           |
| 3D Image Link                |              |           |
| Not available for this motor |              |           |

| GENERAL DATA                               |                |       |
|--|----------------|-------|
| Frame Size                                 | 365TC          |       |
| Frame Enclosure                            | TEFC           |       |
| Mounting                                   | Rigid/C-Flange |       |
| 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                             | true           |       |
| Paint Color                                | Graphite Gray  |       |
| Paint RAL                                  | 7024           |       |
| Weight lb                                  | 873.18         |       |
|  |                |       |
| 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)                    | -              |       |
|  |                |       |
| TORQUE VALUES                              | Torque lb-ft   | % FLT |
| Locked Rotor Torque                        | 734.712        | 328.0 |
| Pull-Up Torque                             | 369.596        | 165.0 |
| Breakdown Torque                           | 665.273        | 297.0 |
| Full Load Torque                           | 223.998        | 100.0 |
|  |                |       |
| SITE CONDITIONS                            |                |       |
| Ambient Temp °C                            | 40             |       |
| Altitude Above Sea Level m                 | 1000           |       |



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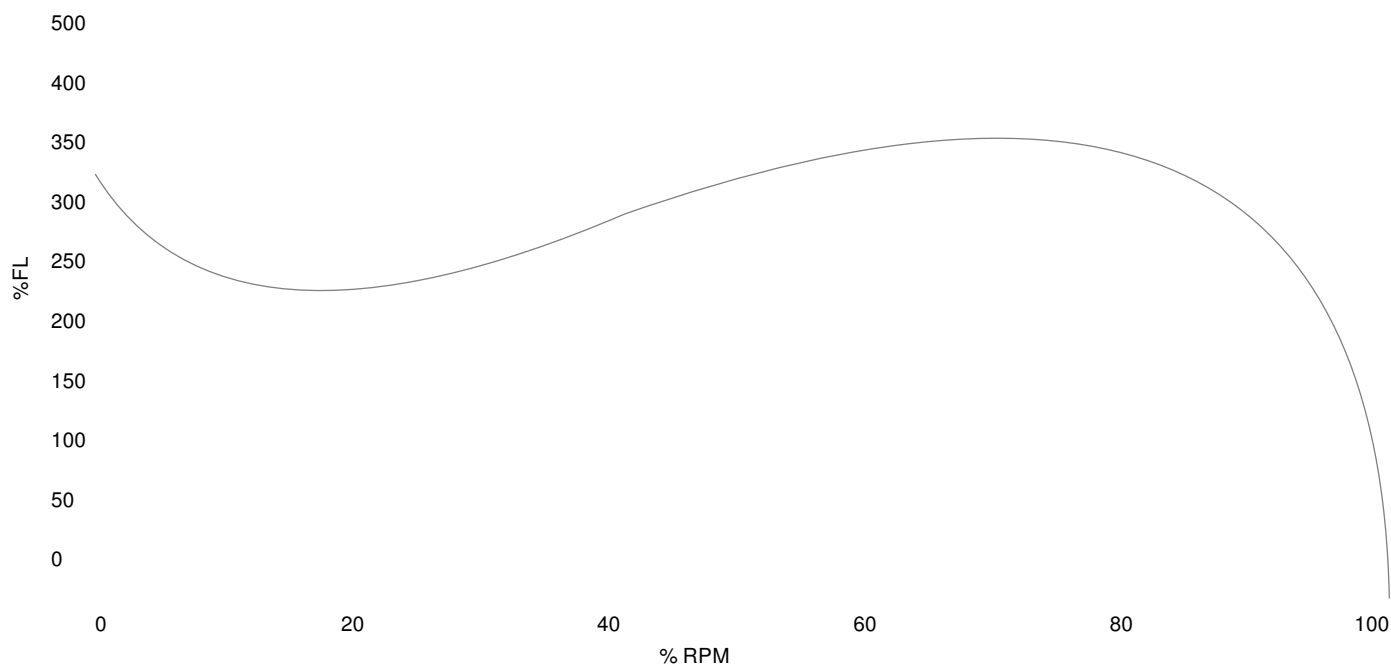
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 75.0HP, 1775 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 734.712      | 328.0 | Start Configuration  |
| Pull-Up Torque      | 369.596      | 165.0 | Starting Current (A) |
| Breakdown Torque    | 665.273      | 297.0 | No-Load Current (A)  |
| Full Load           | 223.998      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 27.82         | -                      | -          | -          | -    |
| 25     | 18.75      | 32.3          | 15.16                  | 1795.3     | 92.0       | 0.59 |
| 50     | 37.5       | 47.4          | 29.4                   | 1790.9     | 94.91      | 0.78 |
| 75     | 56.25      | 64.34         | 43.82                  | 1786.2     | 95.51      | 0.85 |
| 100    | 75.0       | 82.84         | 58.45                  | 1781.2     | 95.47      | 0.89 |
| 125    | 93.75      | 102.61        | 73.31                  | 1775.9     | 95.15      | 0.9  |

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