



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-405T-4-BR-D-100 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                           |               |         |
|---|---------------|---------|
|   | 60 Hz         | 50 Hz   |
| Horsepower                                | 100.0         | 100.0   |
| Speed, RPM                                | 1780          | 1480    |
| Voltage                                   | 230/460       | 190/380 |
| # Phase                                   | 3             |         |
| Full Load Amps                            | 230.93/115.47 | 270/135 |
| Power Factor                              | 0.86          | -       |
| Nominal Efficiency                        | 95.4          | 93.4    |
| 3/4 Load Efficiency                       | -             | -       |
| Service Factor                            | 1.15          | 1.0     |
| KVA Code                                  | K             | E       |
| FL Amps. @ 208 V                          | -             | -       |
| Locked Rotor Current                      | 1130.03       | -       |
| Start Capacitor                           | -             |         |
| Start Capacitor V                         | -             |         |
| Run Capacitor                             | -             |         |
| Run Capacitor V                           | -             |         |
| Number of Leads                           | 12            |         |
| Connection                                | DD/D          |         |
| Coil Resistance                           | -             |         |
|   |               |         |
| Load                                      | Efficiency %  | P.F.    |
| 50%                                       | 94.75         | 0.76    |
| 75%                                       | 95.29         | 0.84    |
| 100%                                      | 95.15         | 0.87    |
|   |               |         |
| FULL LOAD TEMPERATURE RISE                |               |         |
| FL Temp Rise °C                           | 70.0          | -       |
|   |               |         |
| 3D Image Link                             |               |         |
| <a href="#">GR3-CI-TF-405T-4-BR-D-100</a> |               |         |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 405T          |       |
| 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 3"      |       |
| Feet Removable                             | -             |       |
| Double Drilled                             | true          |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 1025.32       |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6316C3        |       |
| NDE Bearing                                | 6314C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavy washer)                    | DE            |       |
|  |               |       |
| TORQUE VALUES                              |               | % FLT |
| Locked Rotor Torque                        | 976.789       | 332.0 |
| Pull-Up Torque                             | 291.271       | 99.0  |
| Breakdown Torque                           | 453.089       | 154.0 |
| Full Load Torque                           | 294.214       | 100.0 |
|  |               |       |
| SITE CONDITIONS                            |               |       |
| Ambient Temp °C                            | 40            |       |
| Altitude Above Sea Level m                 | 1000          |       |



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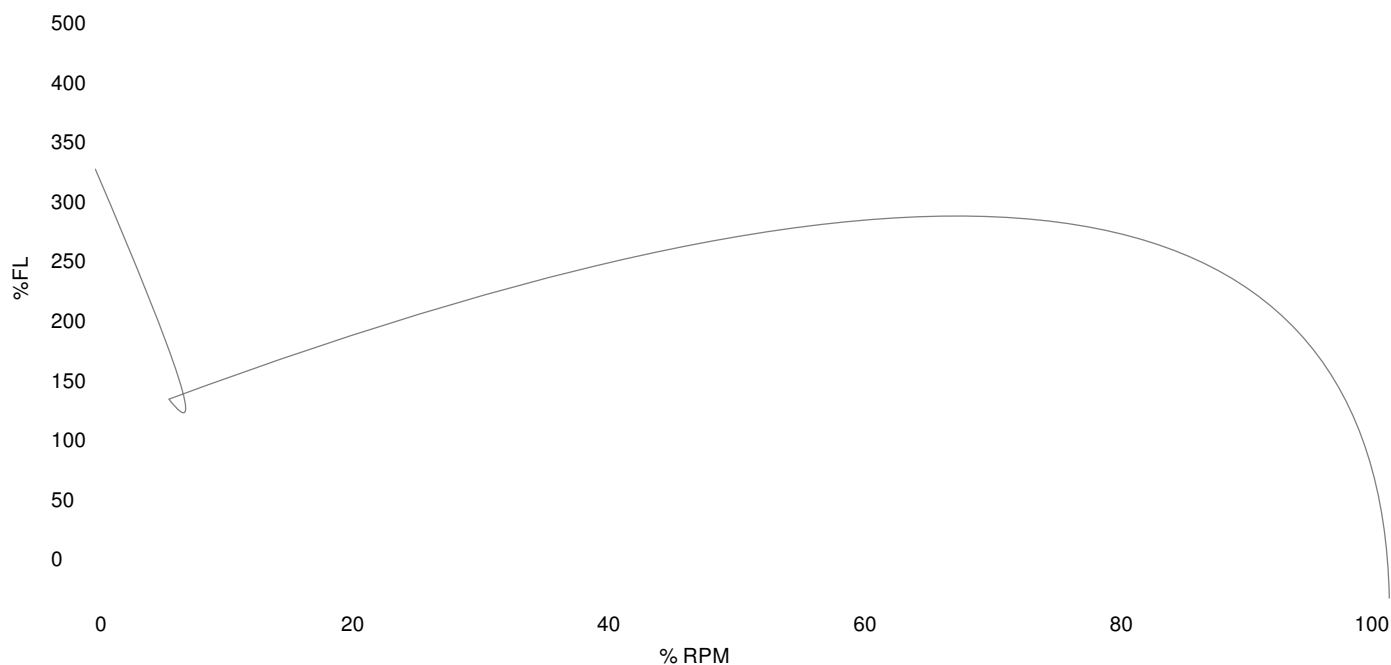
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 100.0HP, 1780 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 976.789      | 332.0 | Start Configuration  |
| Pull-Up Torque      | 291.271      | 99.0  | Starting Current (A) |
| Breakdown Torque    | 453.089      | 154.0 | No-Load Current (A)  |
| Full Load           | 294.214      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 41.22         | -                      | -          | -          | -    |
| 25     | 25.0       | 48.74         | 20.43                  | 1796.0     | 91.8       | 0.53 |
| 50     | 50.0       | 65.67         | 39.58                  | 1791.9     | 94.75      | 0.76 |
| 75     | 75.0       | 87.99         | 59.03                  | 1787.6     | 95.29      | 0.84 |
| 100    | 100.0      | 113.85        | 78.83                  | 1783.1     | 95.15      | 0.87 |
| 125    | 125.0      | 141.43        | 98.97                  | 1778.3     | 94.72      | 0.88 |

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