



NEMA Premium

**NEMA**

|                      |                            |
|----------------------|----------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-405TS-2-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                                 | 3570          | 2950    |
| Voltage                                    | 230/460       | 190/380 |
| # Phase                                    | 3             |         |
| Full Load Amps                             | 218.69/109.34 | 268/134 |
| Power Factor                               | 0.9           | -       |
| Nominal Efficiency                         | 94.1          | 92.5    |
| 3/4 Load Efficiency                        | -             | -       |
| Service Factor                             | 1.15          | 1.0     |
| KVA Code                                   | K             | E       |
| FL Amps. @ 208 V                           | -             | -       |
| Locked Rotor Current                       | 1031.34       | -       |
| 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%  | 92.96         | 0.86    |
| 75%  | 93.96         | 0.9     |
| 100%                                       | 94.05         | 0.91    |
|  |               |         |
| FULL LOAD TEMPERATURE RISE                 |               |         |
| FL Temp Rise °C                            | 67.0          | -       |
|  |               |         |
| 3D Image Link                              |               |         |
| <a href="#">GR3-CI-TF-405TS-2-BR-D-100</a> |               |         |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 405TS         |       |
| 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                                  | 1020.91       |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6314C3        |       |
| NDE Bearing                                | 6314C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavey washer)                   | DE            |       |
|  |               |       |
| TORQUE VALUES                              |               |       |
|  | Torque lb-ft  | % FLT |
| Locked Rotor Torque                        | 479.374       | 324.0 |
| Pull-Up Torque                             | 303.308       | 205.0 |
| Breakdown Torque                           | 449.783       | 304.0 |
| Full Load Torque                           | 147.955       | 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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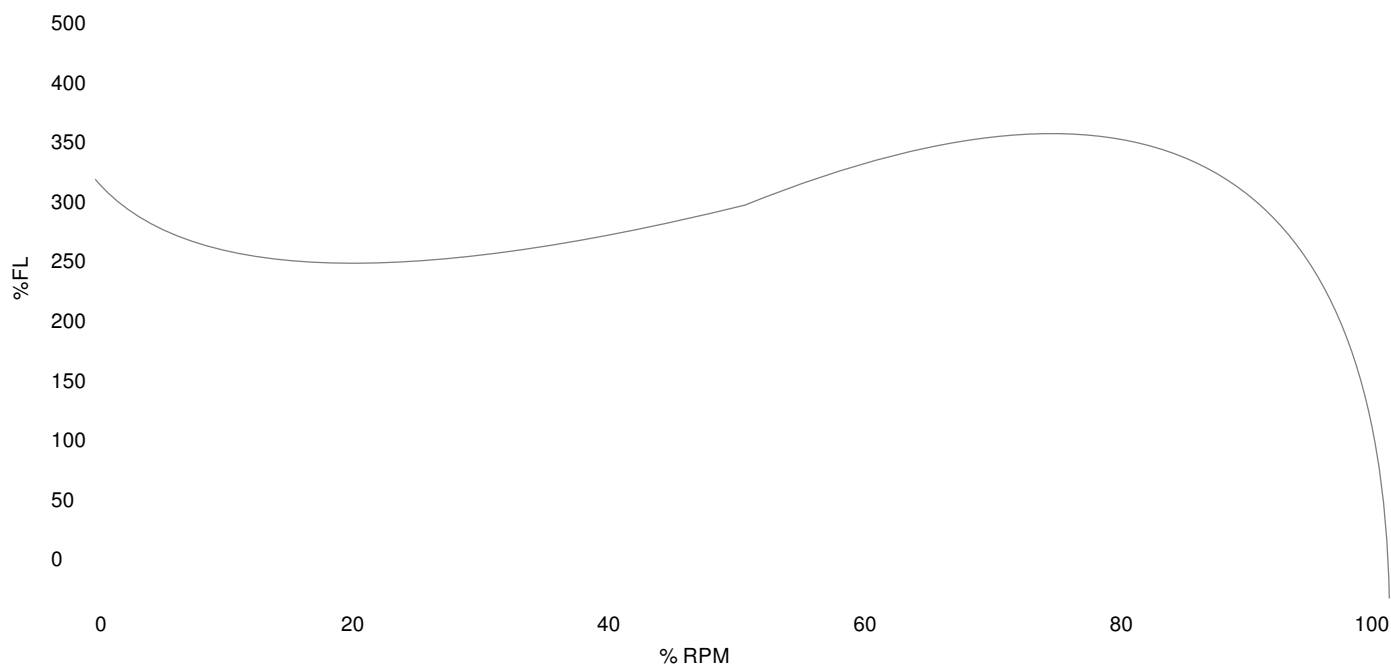
|                      |                            |
|----------------------|----------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-405TS-2-BR-D-100 |
| <b>FACTORY TYPE:</b> | TXC                        |

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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 100.0HP, 3570 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 479.374      | 324.0 | Start Configuration  |
| Pull-Up Torque      | 303.308      | 205.0 | Starting Current (A) |
| Breakdown Torque    | 449.783      | 304.0 | No-Load Current (A)  |
| Full Load           | 147.955      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 24.33         | -                      | -          | -          | -    |
| 25     | 25.0       | 36.85         | 21.13                  | 3592.6     | 88.75      | 0.72 |
| 50     | 50.0       | 59.11         | 40.34                  | 3585.3     | 92.96      | 0.86 |
| 75     | 75.0       | 83.45         | 59.87                  | 3577.4     | 93.96      | 0.9  |
| 100    | 100.0      | 109.64        | 79.74                  | 3568.9     | 94.05      | 0.91 |
| 125    | 125.0      | 137.44        | 100.0                  | 3559.8     | 93.75      | 0.91 |

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