



NEMA Premium

NEMA

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|----------------------|-----------------------------|
| MOTOR MODEL: | GR3-CI-TF-405TSC-2-BR-D-100 |
| FACTORY TYPE: | 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 | | |
| Not available for this motor | | |

| GENERAL DATA | | | |
|--|----------------|--------------|-------|
| Frame Size | 405TSC | | |
| 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 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 ² , Lb-Ft ² | - | | |
| Comp Ring (wavey washer) | - | | |
| | | | |
| 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 | | |



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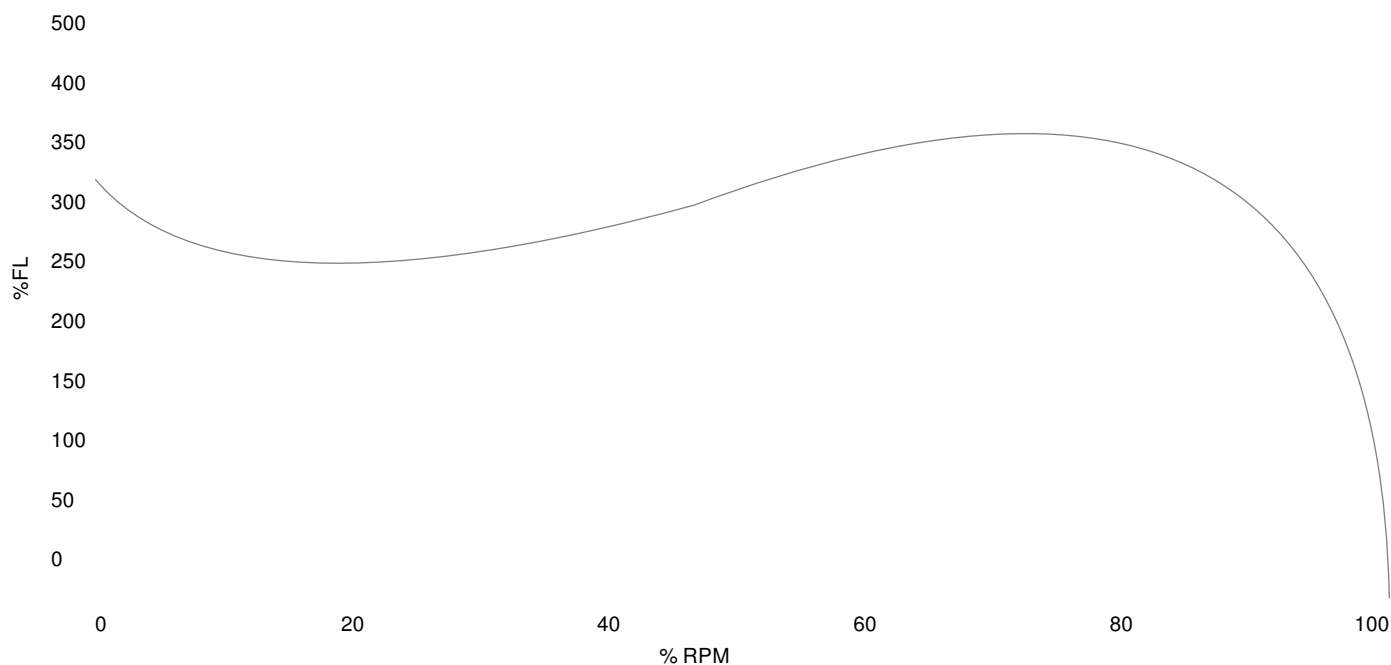
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Premium NEMA Cast Iron, TEFC

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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