



NEMA Premium

NEMA

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-449TS-2-BR-E-250 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 250.0 | 250.0 |
| Speed, RPM | 3575 | 2965 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 271.4890755 | 330 |
| Power Factor | 0.91 | - |
| Nominal Efficiency | 95.8 | 94.3 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | H | D |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 4246.99 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 6 | |
| Connection | D | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 94.91 | 0.86 |
| 75% | 95.51 | 0.91 |
| 100% | 95.48 | 0.92 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 107.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-449TS-2-BR-E-250 | | |

| GENERAL DATA | | | |
|--|---------------|--------------|-------|
| Frame Size | 449TS | | |
| 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 | 2-NPT 3" | | |
| Feet Removable | - | | |
| Double Drilled | true | | |
| Paint Color | Graphite Gray | | |
| Paint RAL | 7024 | | |
| Weight lb | 2024.19 | | |
| | | | |
| MECHANICAL DATA | | | |
| DE Bearing | 6316C3 | | |
| NDE Bearing | 6316C3 | | |
| dB No-Load | - | | |
| Rotor Wk ² , Lb-Ft ² | - | | |
| Comp Ring (wavey washer) | DE | | |
| | | | |
| TORQUE VALUES | | Torque lb-ft | % FLT |
| Locked Rotor Torque | 2011.6 | 480.0 | |
| Pull-Up Torque | 109800.0 | 262.0 | |
| Breakdown Torque | 1973.88 | 471.0 | |
| Full Load Torque | 419.083 | 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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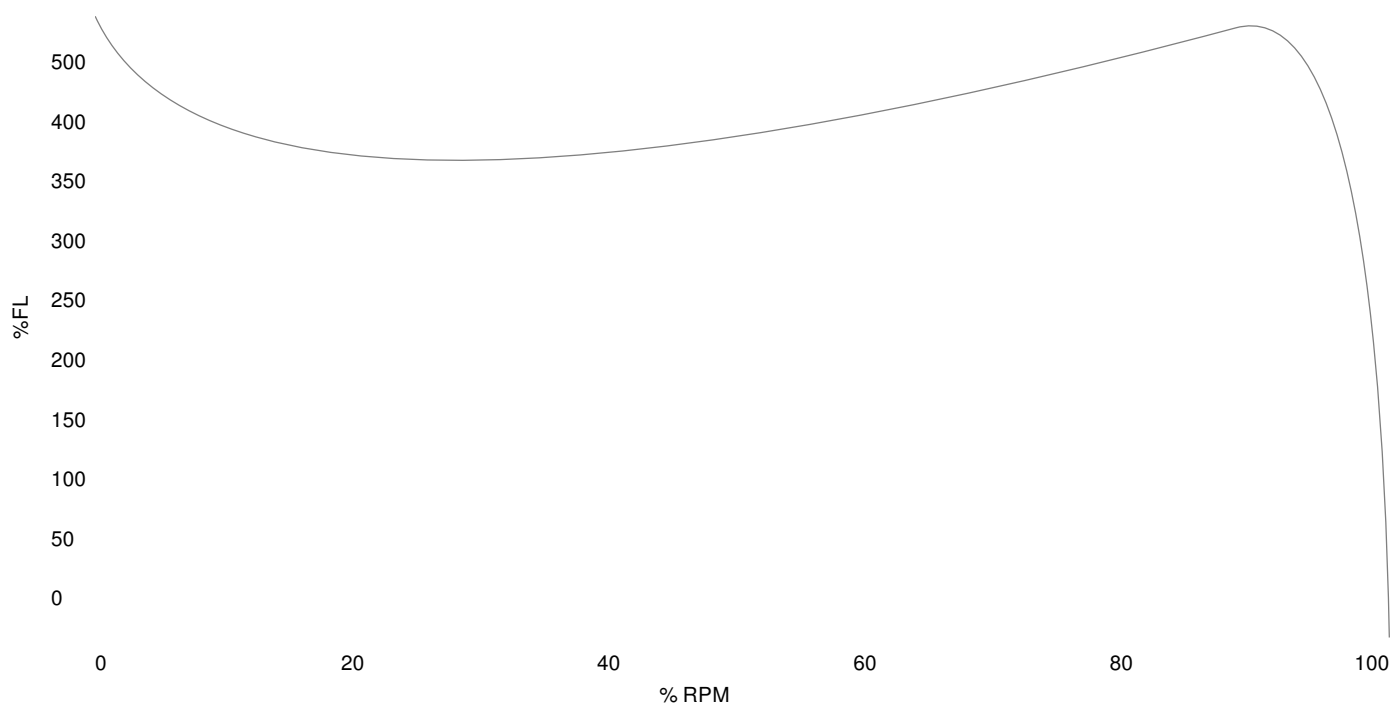
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 250.0HP, 3575 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 2011.6 | 480.0 | Start Configuration |
| Pull-Up Torque | 109800.0 | 262.0 | Starting Current (A) |
| Breakdown Torque | 1973.88 | 471.0 | No-Load Current (A) |
| Full Load | 419.083 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 71.28 | - | - | - | - |
| 25 | 62.5 | 104.41 | 58.29 | 3594.5 | 91.99 | 0.7 |
| 50 | 125.0 | 164.8 | 113.0 | 3589.1 | 94.91 | 0.86 |
| 75 | 187.5 | 232.66 | 168.43 | 3583.5 | 95.51 | 0.91 |
| 100 | 250.0 | 305.08 | 224.66 | 3577.6 | 95.48 | 0.92 |
| 125 | 312.5 | 349.51 | 258.79 | 3574.0 | 95.32 | 0.93 |

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