



NEMA Premium

NEMA

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-449TC-4-BR-E-250 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 250.0 | 250.0 |
| Speed, RPM | 1780 | 1480 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 273.3979781 | 320 |
| Power Factor | 0.89 | - |
| Nominal Efficiency | 96.2 | 94.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | H | D |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 2972.2 | - |
| 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% | 95.88 | 0.82 |
| 75% | 96.11 | 0.88 |
| 100% | 95.85 | 0.9 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 94.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-449TC-4-BR-E-250 | | |

| GENERAL DATA | | |
|----------------------------|----------------|-------|
| Frame Size | 449TC | |
| 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 | 2-NPT 3" | |
| Feet Removable | - | |
| Double Drilled | true | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 2288.79 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6319C3 | |
| NDE Bearing | 6319C3 | |
| dB No-Load | - | |
| Rotor Wk², Lb-Ft² | - | |
| Comp Ring (wavey washer) | - | |
| | | |
| TORQUE VALUES | | |
| | Torque lb-ft | % FLT |
| Locked Rotor Torque | 2872.23 | 341.0 |
| Pull-Up Torque | 1179.21 | 140.0 |
| Breakdown Torque | 2922.77 | 347.0 |
| Full Load Torque | 842.296 | 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 Techtop for more info.

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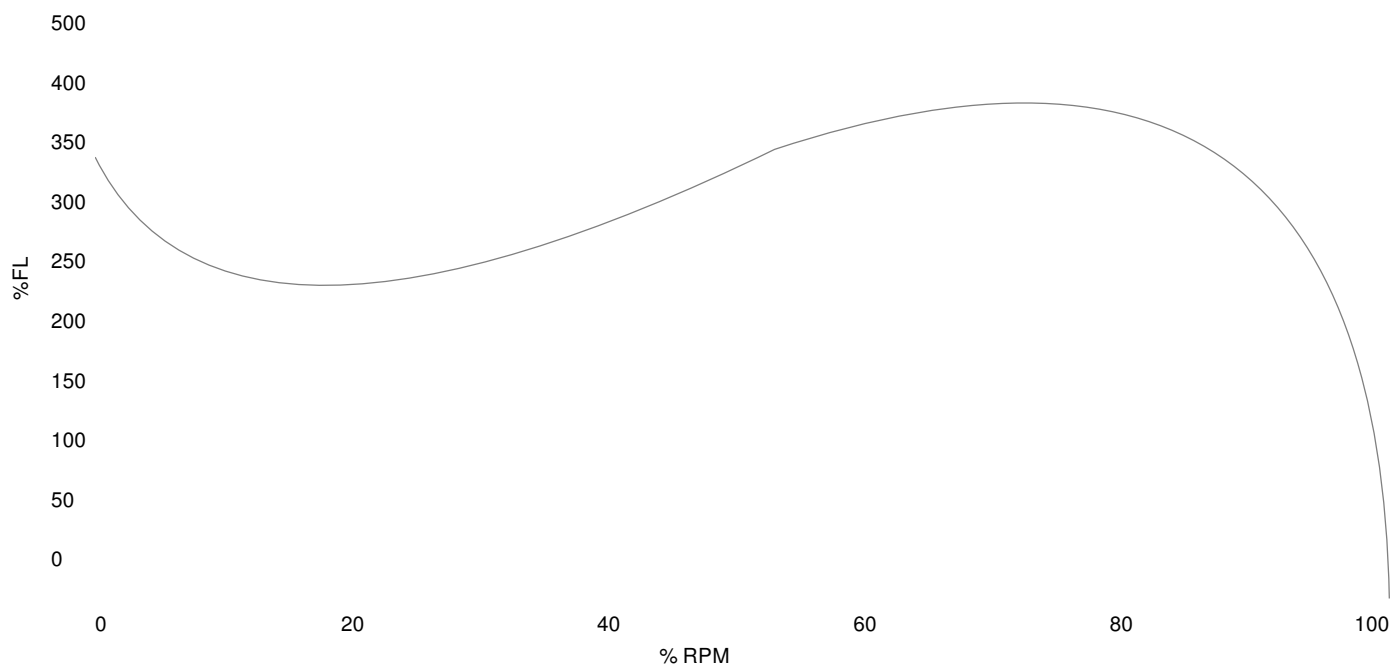
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 250.0HP, 1780 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 2872.23 | 341.0 | Start Configuration |
| Pull-Up Torque | 1179.21 | 140.0 | Starting Current (A) |
| Breakdown Torque | 2922.77 | 347.0 | No-Load Current (A) |
| Full Load | 842.296 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 88.7 | - | - | - | - |
| 25 | 62.5 | 115.46 | 57.1 | 1796.8 | 93.91 | 0.62 |
| 50 | 125.0 | 172.17 | 111.86 | 1793.7 | 95.88 | 0.82 |
| 75 | 187.5 | 238.28 | 167.39 | 1790.5 | 96.11 | 0.88 |
| 100 | 250.0 | 310.89 | 223.78 | 1787.0 | 95.85 | 0.9 |
| 125 | 312.5 | 356.38 | 258.04 | 1784.9 | 95.6 | 0.91 |

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