



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-CI-TF-444T-6-RR-F-100 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 100.0 | 100.0 |
| Speed, RPM | 1180 | - |
| Voltage | 575 | - |
| # Phase | 3 | |
| Full Load Amps | 91.68289092 | - |
| Power Factor | 0.86 | - |
| Nominal Efficiency | 95.0 | - |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | H | - |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 850.883 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 6 | |
| Connection | D | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 94.86 | 0.79 |
| 75% | 95.51 | 0.85 |
| 100% | 95.48 | 0.87 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 76.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-444T-6-RR-F-100 | | |

| GENERAL DATA | | |
|--|---------------|-------|
| Frame Size | 444T | |
| 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 | 1589.81 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | NU319 | |
| NDE Bearing | 6319C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | None | |
| | | |
| TORQUE VALUES | Torque lb-ft | % FLT |
| Locked Rotor Torque | 974.23 | 217.0 |
| Pull-Up Torque | 682.41 | 152.0 |
| Breakdown Torque | 1117.9 | 249.0 |
| Full Load Torque | 448.954 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |



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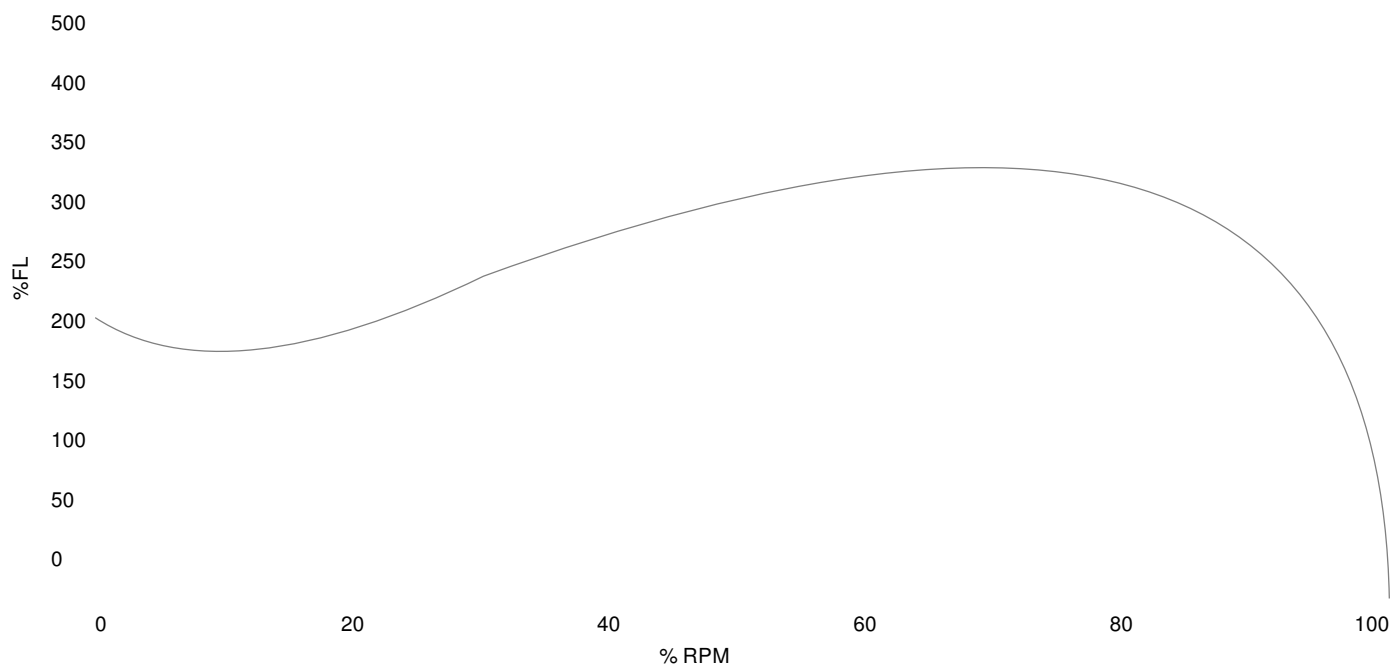
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 100.0HP, 1180 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 974.23 | 217.0 | Start Configuration |
| Pull-Up Torque | 682.41 | 152.0 | Starting Current (A) |
| Breakdown Torque | 1117.9 | 249.0 | No-Load Current (A) |
| Full Load | 448.954 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 33.69 | - | - | - | - |
| 25 | 25.0 | 42.21 | 20.42 | 1197.9 | 91.83 | 0.61 |
| 50 | 50.0 | 63.12 | 39.53 | 1195.9 | 94.86 | 0.79 |
| 75 | 75.0 | 86.98 | 58.9 | 1193.8 | 95.51 | 0.85 |
| 100 | 100.0 | 113.33 | 78.55 | 1191.3 | 95.48 | 0.87 |
| 125 | 125.0 | 130.16 | 90.49 | 1189.8 | 95.31 | 0.87 |

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