



NEMA Premium

NEMA

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-445TC-6-RR-E-125 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 125.0 | 125.0 |
| Speed, RPM | 1180 | 985 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 143.2545171 | 175 |
| Power Factor | 0.86 | - |
| Nominal Efficiency | 95.0 | 93.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | J | D |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 1445.83 | - |
| 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% | 93.12 | 0.73 |
| 75% | 93.83 | 0.81 |
| 100% | 93.68 | 0.85 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 100.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-445TC-6-RR-E-125 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 445C | |
| 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 | 1730.93 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | NU319 | |
| NDE Bearing | 6319C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 1694.37 | 269.0 |
| Pull-Up Torque | 894.427 | 142.0 |
| Breakdown Torque | 1933.73 | 307.0 |
| Full Load Torque | 629.878 | 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.



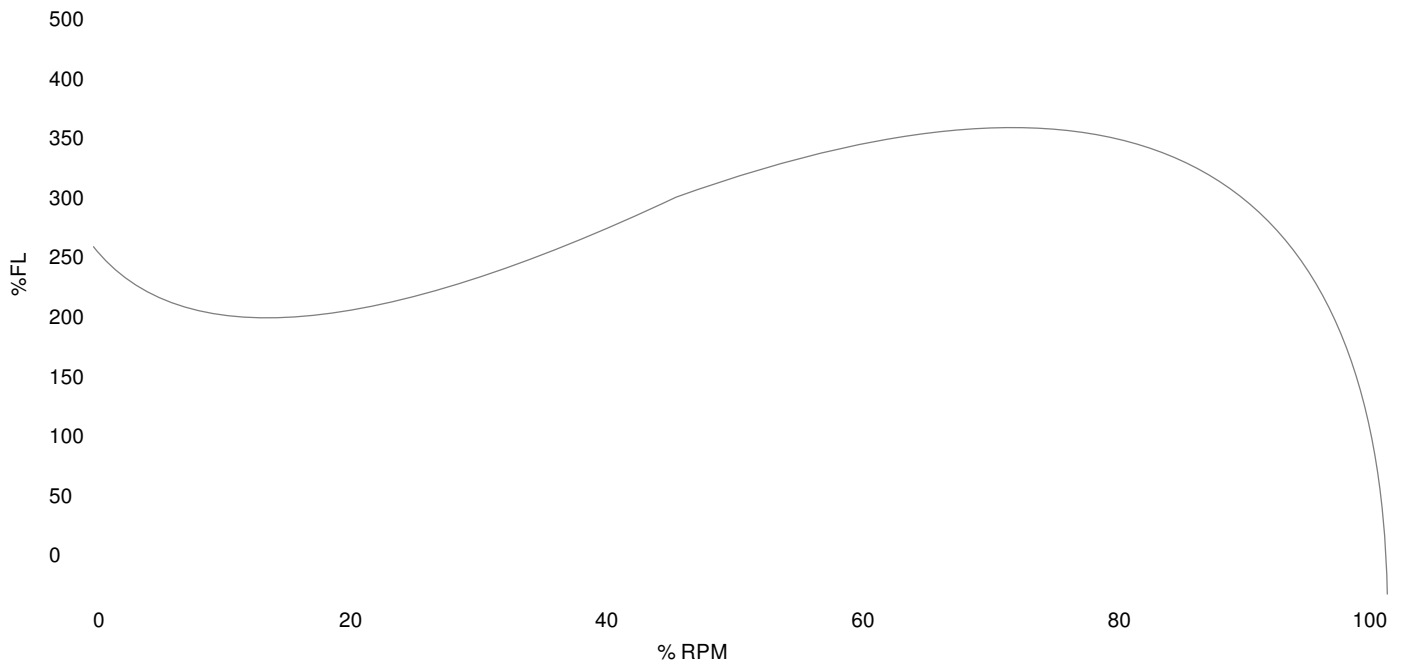
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 1694.37 | 269.0 | Start Configuration |
| Pull-Up Torque | 894.427 | 142.0 | Starting Current (A) |
| Breakdown Torque | 1933.73 | 307.0 | No-Load Current (A) |
| Full Load | 629.878 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 62.1 | - | - | - | - |
| 25 | 31.25 | 73.09 | 30.01 | 1197.8 | 89.39 | 0.52 |
| 50 | 62.5 | 99.61 | 57.61 | 1195.7 | 93.12 | 0.73 |
| 75 | 93.75 | 132.1 | 85.77 | 1193.4 | 93.83 | 0.81 |
| 100 | 125.0 | 169.49 | 114.54 | 1191.0 | 93.68 | 0.85 |
| 125 | 156.25 | 210.69 | 143.98 | 1188.3 | 93.16 | 0.86 |

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