



NEMA Premium

NEMA

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-405TC-4-BR-D-100 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|---------------|---------|
| | 60 Hz | 50 Hz |
| Horsepower | 100.0 | 100.0 |
| Speed, RPM | 1780 | 1480 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 230.93/115.47 | 270/135 |
| Power Factor | 0.86 | - |
| Nominal Efficiency | 95.4 | 93.4 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | K | E |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 1130.03 | - |
| 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% | 94.75 | 0.76 |
| 75% | 95.29 | 0.84 |
| 100% | 95.15 | 0.87 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 70.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-405TC-4-BR-D-100 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 405TC | |
| 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 | 1025.32 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6316C3 | |
| NDE Bearing | 6314C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 976.789 | 332.0 |
| Pull-Up Torque | 291.271 | 99.0 |
| Breakdown Torque | 453.089 | 154.0 |
| Full Load Torque | 294.214 | 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.



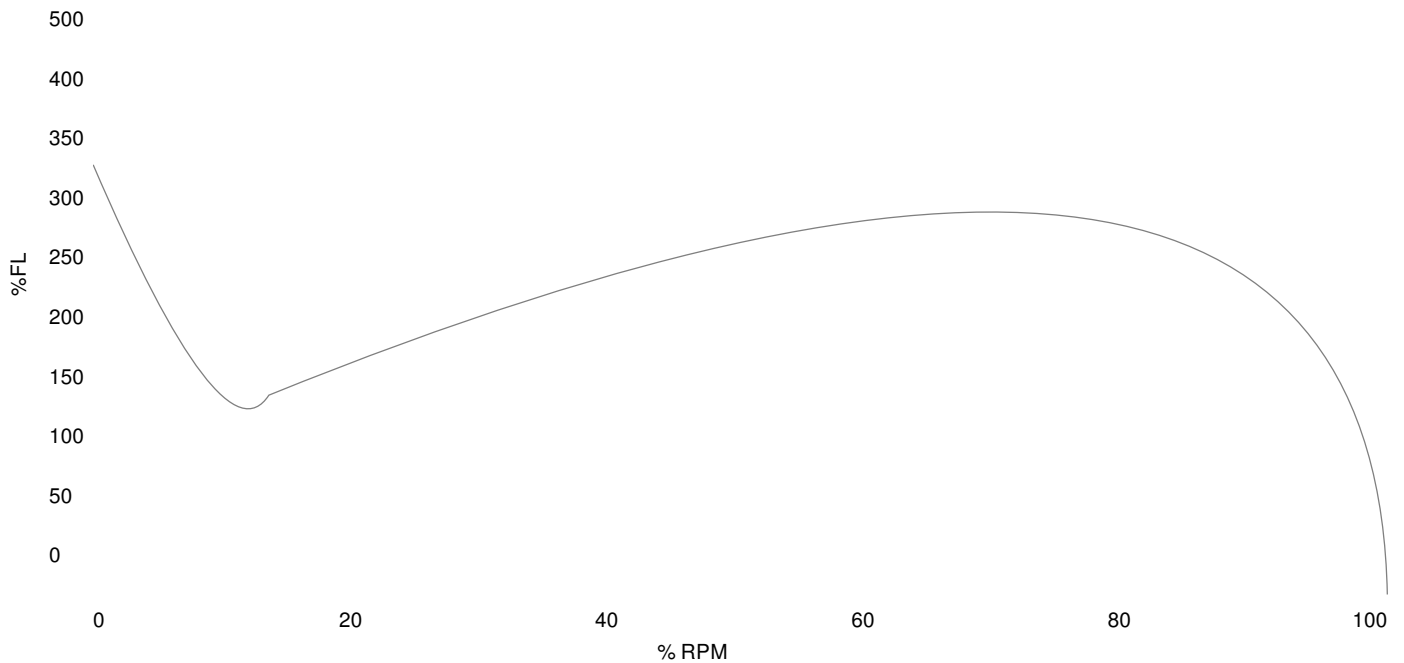
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 976.789 | 332.0 | Start Configuration | - |
| Pull-Up Torque | 291.271 | 99.0 | Starting Current (A) | - |
| Breakdown Torque | 453.089 | 154.0 | No-Load Current (A) | - |
| Full Load | 294.214 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 41.22 | - | - | - | - |
| 25 | 25.0 | 48.74 | 20.43 | 1796.0 | 91.8 | 0.53 |
| 50 | 50.0 | 65.67 | 39.58 | 1791.9 | 94.75 | 0.76 |
| 75 | 75.0 | 87.99 | 59.03 | 1787.6 | 95.29 | 0.84 |
| 100 | 100.0 | 113.85 | 78.83 | 1783.1 | 95.15 | 0.87 |
| 125 | 125.0 | 141.43 | 98.97 | 1778.3 | 94.72 | 0.88 |

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