



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-CI-TF-405TC-6-RR-D-75 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|--------------|---------|
| | 60 Hz | 50 Hz |
| Horsepower | 75.0 | 75.0 |
| Speed, RPM | 1185 | 980 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 172.81/86.41 | 208/104 |
| Power Factor | 0.86 | - |
| Nominal Efficiency | 94.5 | 92.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | H | E |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 647.032 | - |
| 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% | 94.05 | 0.76 |
| 75% | 94.57 | 0.84 |
| 100% | 94.33 | 0.86 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 65.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-405TC-6-RR-D-75 | | |

| 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 | 1045.17 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | NU316 | |
| NDE Bearing | 6314C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | |
| | Torque lb-ft | % FLT |
| Locked Rotor Torque | 715.421 | 220.0 |
| Pull-Up Torque | 419.497 | 129.0 |
| Breakdown Torque | 822.734 | 253.0 |
| Full Load Torque | 325.191 | 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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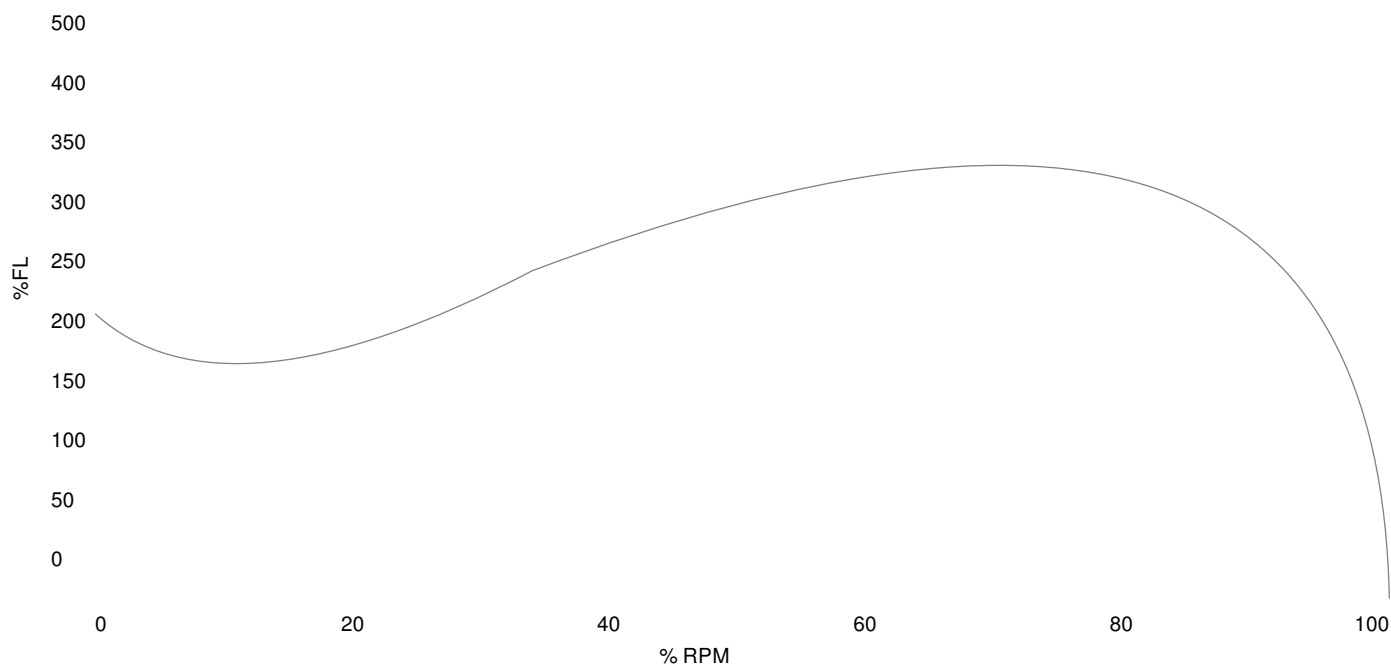
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 715.421 | 220.0 | Start Configuration |
| Pull-Up Torque | 419.497 | 129.0 | Starting Current (A) |
| Breakdown Torque | 822.734 | 253.0 | No-Load Current (A) |
| Full Load | 325.191 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 28.81 | - | - | - | - |
| 25 | 18.75 | 33.99 | 15.12 | 1197.0 | 90.93 | 0.56 |
| 50 | 37.5 | 48.23 | 29.24 | 1194.2 | 94.05 | 0.76 |
| 75 | 56.25 | 65.25 | 43.62 | 1191.1 | 94.57 | 0.84 |
| 100 | 75.0 | 84.69 | 58.31 | 1187.6 | 94.33 | 0.86 |
| 125 | 93.75 | 106.15 | 73.34 | 1183.7 | 93.74 | 0.87 |

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