



NEMA Premium

NEMA

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-365TSC-2-BR-D-75 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|--------------|-----------|
| | 60 Hz | 50 Hz |
| Horsepower | 75.0 | 75.0 |
| Speed, RPM | 3560 | 2940 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 166.72/83.36 | 203/101.5 |
| Power Factor | 0.9 | - |
| Nominal Efficiency | 93.6 | 91.2 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | K | F |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 941.877 | - |
| 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% | 92.53 | 0.83 |
| 75% | 93.68 | 0.89 |
| 100% | 93.68 | 0.89 |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 62.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-365TSC-2-BR-D-75 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 365TSC | |
| 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 2" | |
| Feet Removable | - | |
| Double Drilled | true | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 784.98 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6313C3 | |
| NDE Bearing | 6313C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | |
| | Torque lb-ft | % FLT |
| Locked Rotor Torque | 447.777 | 408.0 |
| Pull-Up Torque | 210.719 | 192.0 |
| Breakdown Torque | 409.365 | 373.0 |
| Full Load Torque | 109.749 | 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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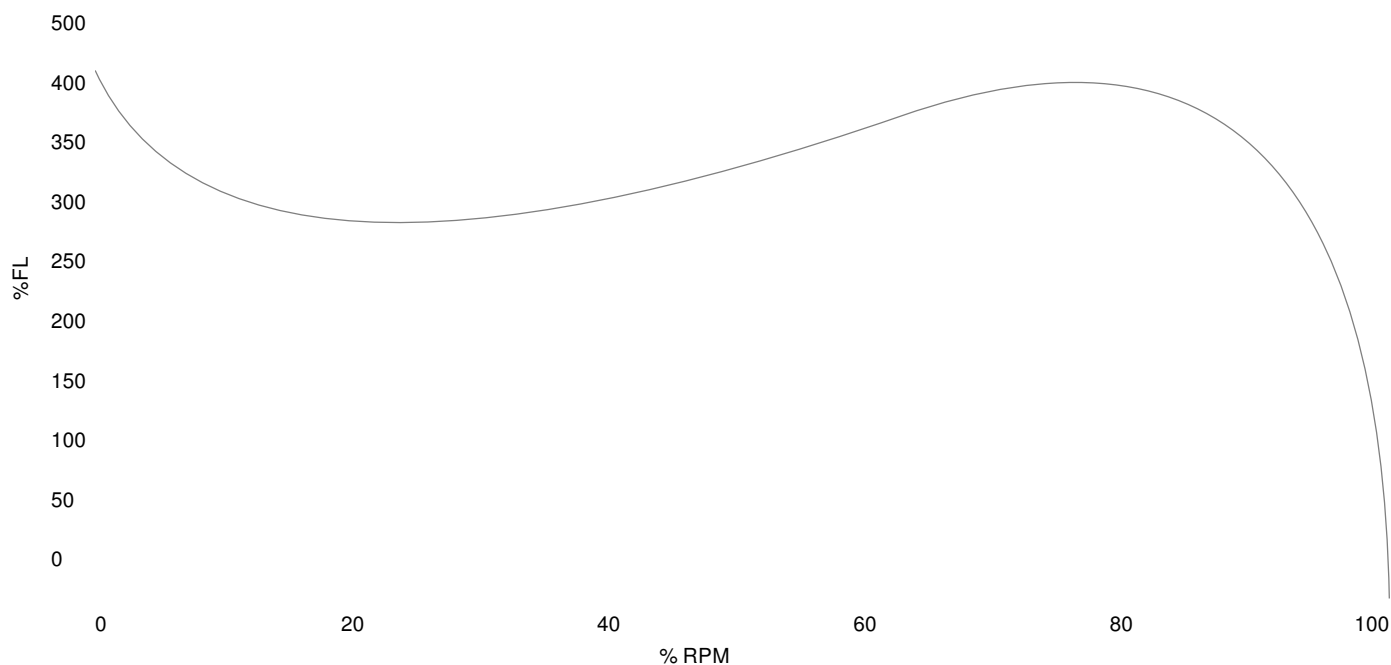
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 75.0HP, 3560 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 447.777 | 408.0 | Start Configuration |
| Pull-Up Torque | 210.719 | 192.0 | Starting Current (A) |
| Breakdown Torque | 409.365 | 373.0 | No-Load Current (A) |
| Full Load | 109.749 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 21.47 | - | - | - | - |
| 25 | 18.75 | 29.98 | 15.92 | 3593.2 | 87.92 | 0.67 |
| 50 | 37.5 | 45.56 | 30.26 | 3586.7 | 92.53 | 0.83 |
| 75 | 56.25 | 63.16 | 44.83 | 3579.8 | 93.68 | 0.89 |
| 100 | 75.0 | 63.16 | 44.83 | 3579.8 | 93.68 | 0.89 |
| 125 | 93.75 | 102.35 | 74.74 | 3565.1 | 93.66 | 0.92 |

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