



NEMA Premium

NEMA

| | |
|----------------------|------------------------|
| MOTOR MODEL: | GR3-CI-TF-145T-2-B-D-2 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|--------------|---------|
| | 60 Hz | 50 Hz |
| Horsepower | 2.0 | 2.0 |
| Speed, RPM | 3450 | 2860 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 5.15/2.58 | 6.6/3.3 |
| Power Factor | 0.83 | - |
| Nominal Efficiency | 85.5 | 81.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | L | J |
| FL Amps. @ 208 V | 5.69849 | - |
| Locked Rotor Current | 23.2974 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 9 | |
| Connection | YY/Y | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 84.53 | 0.67 |
| 75% | 86.37 | 0.79 |
| 100% | 86.27 | 0.85 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | - | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-145T-2-B-D-2 | | |

| GENERAL DATA | | |
|--|---------------|-------|
| Frame Size | 145T | |
| 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 3/4" | |
| Feet Removable | true | |
| Double Drilled | - | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 48.51 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6205ZZ | |
| NDE Bearing | 6205ZZ | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | NDE | |
| | | |
| TORQUE VALUES | | |
| | Torque lb-ft | % FLT |
| Locked Rotor Torque | 8.91226 | 294.0 |
| Pull-Up Torque | 6.12339 | 202.0 |
| Breakdown Torque | 10.0642 | 332.0 |
| Full Load Torque | 3.03138 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |



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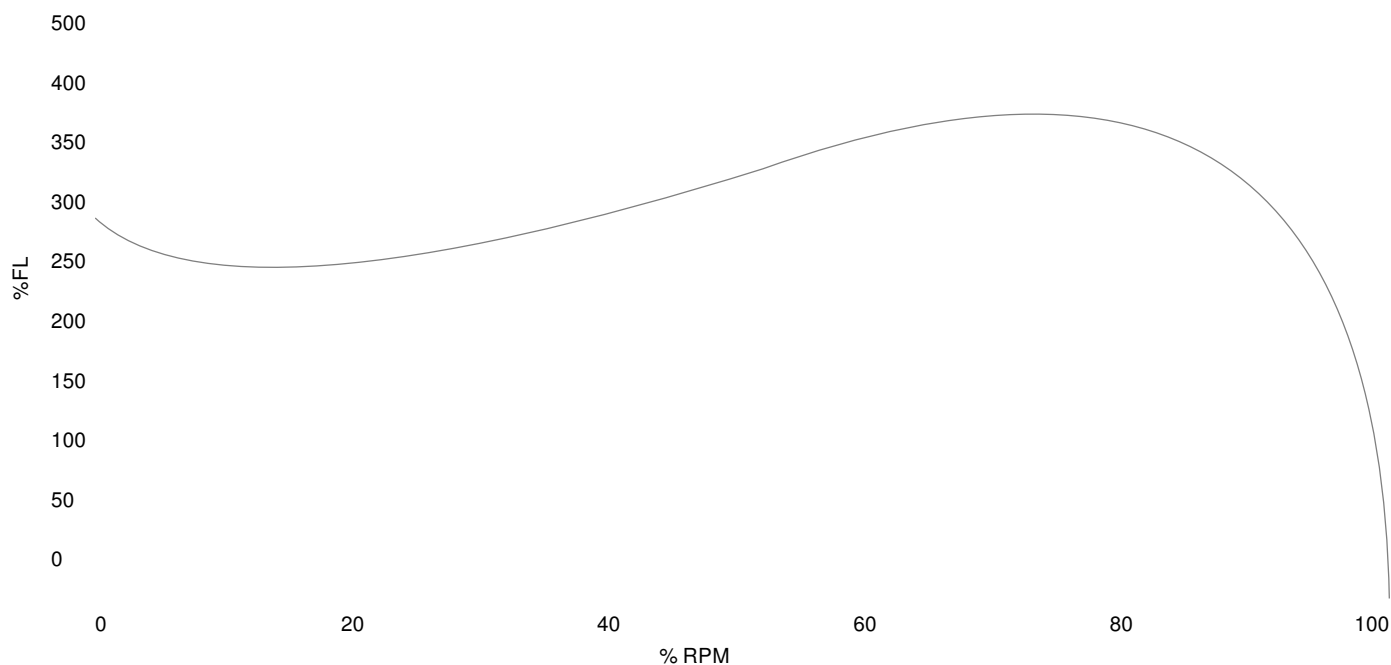
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 2.0HP, 3450 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 8.91226 | 294.0 | Start Configuration |
| Pull-Up Torque | 6.12339 | 202.0 | Starting Current (A) |
| Breakdown Torque | 10.0642 | 332.0 | No-Load Current (A) |
| Full Load | 3.03138 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 1.29 | - | - | - | - |
| 25 | 0.5 | 1.37 | 489.13 | 3575.5 | 76.67 | 0.45 |
| 50 | 1.0 | 1.67 | 887.26 | 3554.1 | 84.53 | 0.67 |
| 75 | 1.5 | 2.08 | 1302.5 | 3529.7 | 86.37 | 0.79 |
| 100 | 2.0 | 2.58 | 1738.8 | 3502.4 | 86.27 | 0.85 |
| 125 | 2.5 | 3.14 | 2199.9 | 3472.1 | 85.23 | 0.88 |

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