



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-CI-TF-324TC-6-BR-D-25 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|---------|
| | 60 Hz | 50 Hz |
| Horsepower | 25.0 | 25.0 |
| Speed, RPM | 1180 | 965 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 61.39/30.69 | 74/37 |
| Power Factor | 0.81 | - |
| Nominal Efficiency | 93.0 | 90.0 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | M | E |
| FL Amps. @ 208 V | 67.8825 | - |
| Locked Rotor Current | 361.401 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 12 | |
| Connection | DD/D | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 91.71 | 0.64 |
| 75% | 92.78 | 0.76 |
| 100% | 92.81 | 0.82 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 52.0 | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 324TC | |
| 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 | true | |
| Double Drilled | - | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 500.535 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6312C3 | |
| NDE Bearing | 6312C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 374.193 | 338.0 |
| Pull-Up Torque | 218.095 | 197.0 |
| Breakdown Torque | 464.974 | 420.0 |
| Full Load Torque | 110.708 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |



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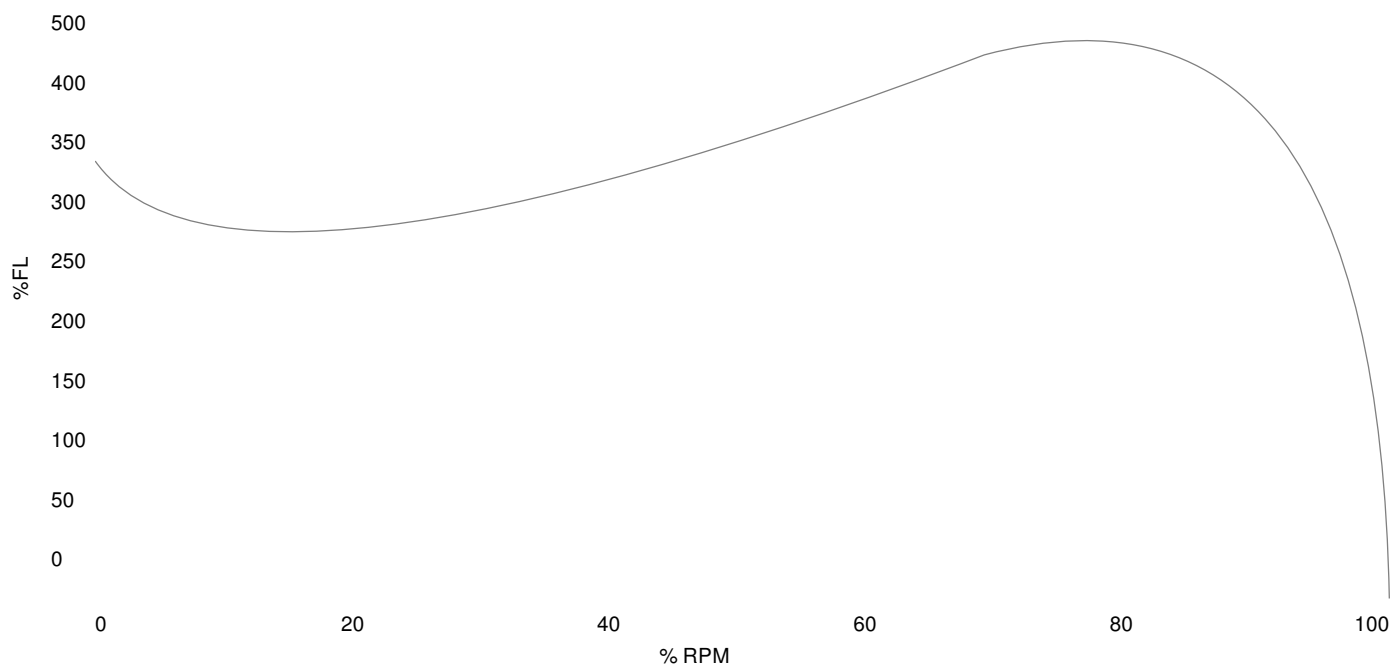
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| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 25.0HP, 1180 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 374.193 | 338.0 | Start Configuration |
| Pull-Up Torque | 218.095 | 197.0 | Starting Current (A) |
| Breakdown Torque | 464.974 | 420.0 | No-Load Current (A) |
| Full Load | 110.708 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 14.61 | - | - | - | - |
| 25 | 6.25 | 16.05 | 5.35 | 1196.5 | 86.95 | 0.42 |
| 50 | 12.5 | 19.84 | 10.14 | 1193.1 | 91.71 | 0.64 |
| 75 | 18.75 | 24.87 | 15.04 | 1189.5 | 92.78 | 0.76 |
| 100 | 25.0 | 30.81 | 20.04 | 1185.7 | 92.81 | 0.82 |
| 125 | 31.25 | 34.69 | 23.1 | 1183.3 | 92.58 | 0.84 |

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