



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-CI-TF-286TC-6-BR-D-20 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|--------------|-----------|
| | 60 Hz | 50 Hz |
| Horsepower | 20.0 | 20.0 |
| Speed, RPM | 1175 | 965 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 51.05/25.53 | 62.8/31.4 |
| Power Factor | 0.8 | - |
| Nominal Efficiency | 91.7 | 89.1 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | L | F |
| FL Amps. @ 208 V | 56.4528 | - |
| LRC @ 60Hz HV | 236.819 | - |
| 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% | 91.19 | 0.64 |
| 75% | 92.24 | 0.76 |
| 100% | 92.16 | 0.81 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 60.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-286TC-6-BR-D-20 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 286TC | |
| 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 1-1/2" | |
| Feet Removable | true | |
| Double Drilled | true | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 403.515 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6311C3 | |
| NDE Bearing | 6311C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 224.057 | 249.0 |
| Pull-Up Torque | 120.577 | 134.0 |
| Breakdown Torque | 296.043 | 329.0 |
| Full Load Torque | 89.9826 | 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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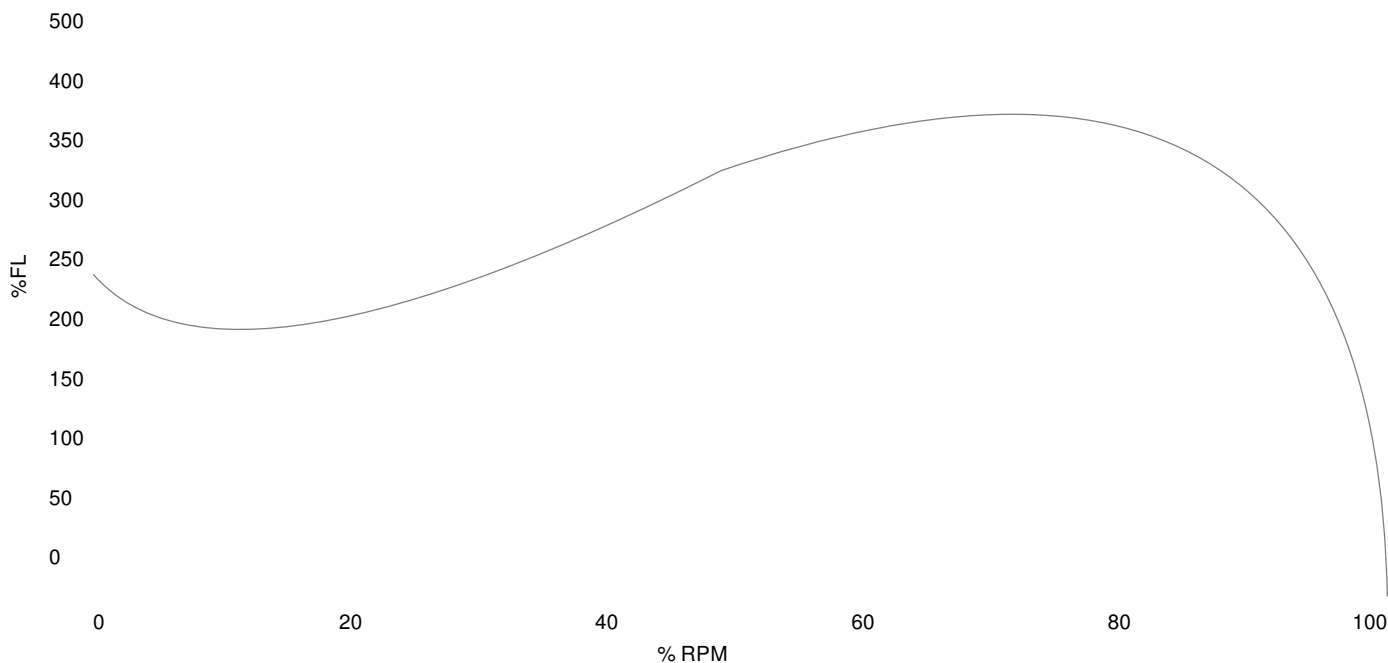
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 224.057 | 249.0 | Start Configuration |
| Pull-Up Torque | 120.577 | 134.0 | Starting Current (A) |
| Breakdown Torque | 296.043 | 329.0 | No-Load Current (A) |
| Full Load | 89.9826 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 11.93 | - | - | - | - |
| 25 | 5.0 | 13.18 | 4.35 | 1195.8 | 86.25 | 0.41 |
| 50 | 10.0 | 16.17 | 8.23 | 1191.8 | 91.19 | 0.64 |
| 75 | 15.0 | 20.24 | 12.2 | 1187.5 | 92.24 | 0.76 |
| 100 | 20.0 | 25.14 | 16.28 | 1182.8 | 92.16 | 0.81 |
| 125 | 25.0 | 30.62 | 20.48 | 1177.8 | 91.56 | 0.84 |

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