



NEMA Premium

NEMA

| | |
|----------------------|----------------------------|
| MOTOR MODEL: | GR3-CI-TF-286TSC-2-BR-D-30 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|--|--------------|-----------|
| | 60 Hz | 50 Hz |
| Horsepower | 30.0 | 30.0 |
| Speed, RPM | 3550 | 2930 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 70.42/35.21 | 83.8/41.9 |
| Power Factor | 0.9 | - |
| Nominal Efficiency | 91.7 | 89.0 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | L | F |
| FL Amps. @ 208 V | 77.8659 | - |
| LRC @ 60Hz HV | 355.585 | - |
| 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% | 90.04 | 0.77 |
| 75% | 91.7 | 0.85 |
| 100% | 92.09 | 0.88 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 64.0 | - |
| | | |
| 3D Image Link | | |
| GR3-CI-TF-286TSC-2-BR-D-30 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 286TSC | |
| 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 | 374.85 | |
| | | |
| 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 | 144.75 | 323.0 |
| Pull-Up Torque | 82.0101 | 183.0 |
| Breakdown Torque | 166.709 | 372.0 |
| Full Load Torque | 44.8143 | 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.



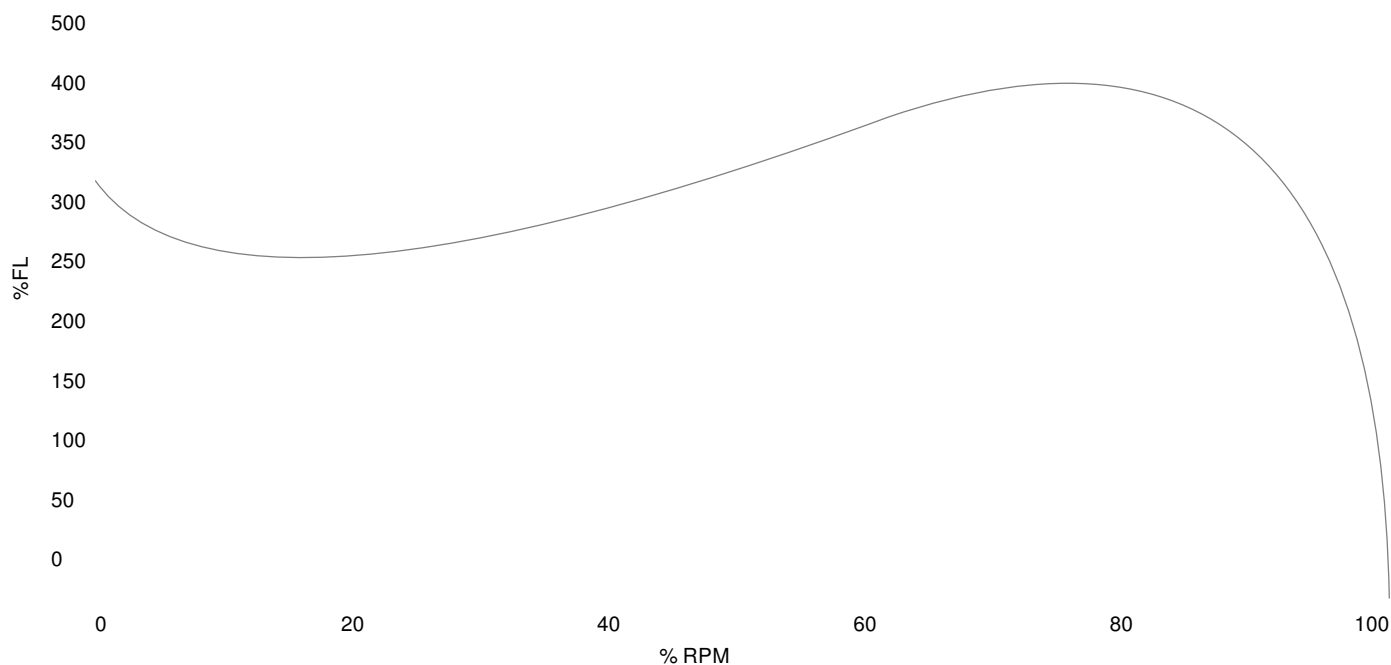
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 144.75 | 323.0 | Start Configuration | - |
| Pull-Up Torque | 82.0101 | 183.0 | Starting Current (A) | - |
| Breakdown Torque | 166.709 | 372.0 | No-Load Current (A) | - |
| Full Load | 44.8143 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 12.06 | - | - | - | - |
| 25 | 7.5 | 14.45 | 6.67 | 3589.1 | 84.0 | 0.58 |
| 50 | 15.0 | 20.37 | 12.44 | 3579.5 | 90.04 | 0.77 |
| 75 | 22.5 | 27.14 | 18.32 | 3569.0 | 91.7 | 0.85 |
| 100 | 30.0 | 34.59 | 24.32 | 3557.8 | 92.09 | 0.88 |
| 125 | 37.5 | 42.59 | 30.46 | 3545.9 | 91.92 | 0.9 |

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