



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-CI-TF-286TC-4-BR-D-30 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|---------------------|-------------|
| | 60 Hz | 50 Hz |
| Horsepower | 30.0 | 30.0 |
| Speed, RPM | 1770 | 1460 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 68.99/34.49 | 84/42 |
| Power Factor | 0.85 | - |
| Nominal Efficiency | 93.6 | 90.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | F |
| FL Amps. @ 208 V | 76.2853 | - |
| Locked Rotor Current | 329.683 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 12 | |
| Connection | DD/D | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 92.75 | 0.71 |
| 75% | 93.63 | 0.82 |
| 100% | 93.58 | 0.86 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 60.0 | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| 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 | 396.9 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6311C3 | |
| NDE Bearing | 6311C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | - | |
| | | |
| TORQUE VALUES | | |
| | Torque lb-ft | % FLT |
| Locked Rotor Torque | 265.96 | 299.0 |
| Pull-Up Torque | 190.353 | 214.0 |
| Breakdown Torque | 323.778 | 364.0 |
| Full Load Torque | 88.95 | 100.0 |
| | | |
| SITE CONDITIONS | | |
| Ambient Temp °C | 40 | |
| Altitude Above Sea Level m | 1000 | |

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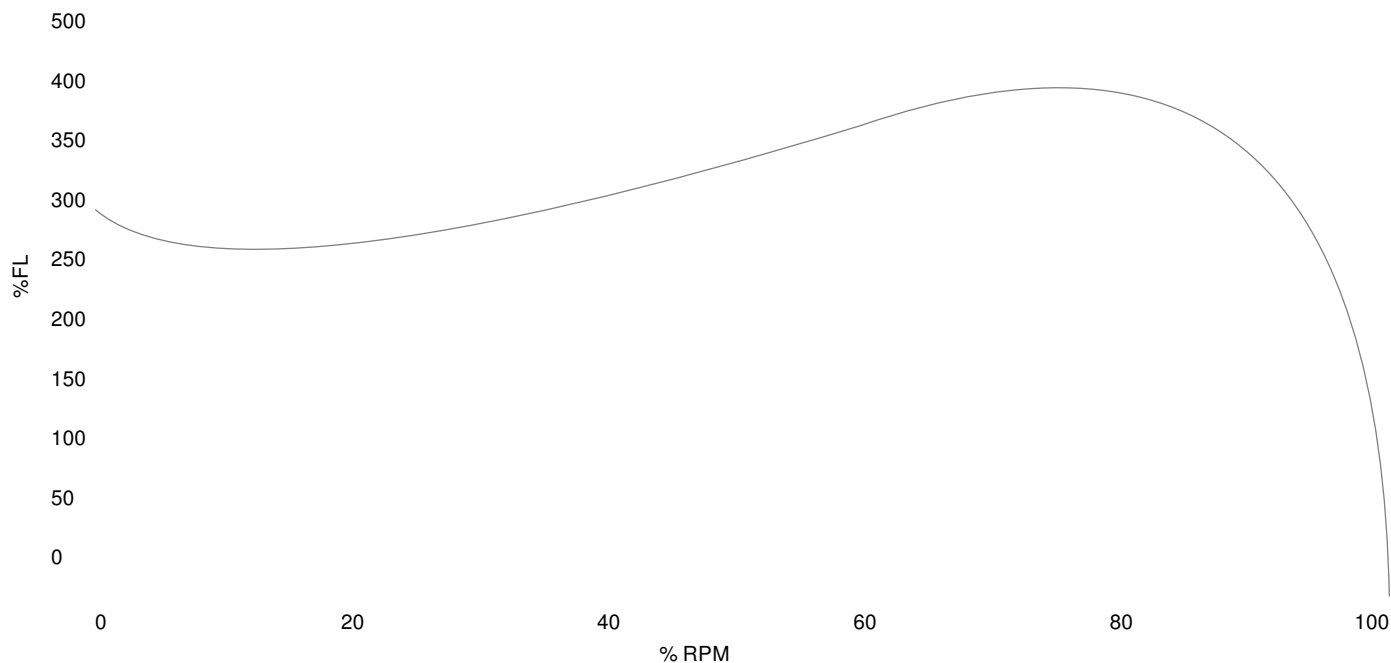
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 30.0HP, 1770 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 265.96 | 299.0 | Start Configuration |
| Pull-Up Torque | 190.353 | 214.0 | Starting Current (A) |
| Breakdown Torque | 323.778 | 364.0 | No-Load Current (A) |
| Full Load | 88.95 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 14.41 | - | - | - | - |
| 25 | 7.5 | 16.23 | 6.29 | 1794.1 | 88.63 | 0.49 |
| 50 | 15.0 | 21.24 | 12.02 | 1788.4 | 92.75 | 0.71 |
| 75 | 22.5 | 27.51 | 17.86 | 1782.2 | 93.63 | 0.82 |
| 100 | 30.0 | 34.74 | 23.83 | 1775.7 | 93.58 | 0.86 |
| 125 | 37.5 | 42.61 | 29.93 | 1768.8 | 93.13 | 0.88 |

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