



NEMA Premium

NEMA

| | |
|----------------------|-------------------------|
| MOTOR MODEL: | GR3-AL-TF-182TC-2-B-D-3 |
| FACTORY TYPE: | TXA |

Premium NEMA Cast Aluminum, TEFC

| ELECTRICAL DATA | | |
|------------------------------|---------------------|-------------|
| | 60 Hz | 50 Hz |
| Horsepower | 3.0 | 3.0 |
| Speed, RPM | 3515 | 2900 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 7.17/3.59 | 8.38/4.19 |
| Power Factor | 0.89 | - |
| Nominal Efficiency | 86.5 | 86.2 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | H |
| FL Amps. @ 208 V | 7.77 | - |
| Locked Rotor Current | 33.3216 | - |
| 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% | 84.23 | 0.77 |
| 75% | 86.43 | 0.86 |
| 100% | 86.72 | 0.9 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 37.0 | 37.0 |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | |
|--------------------------------------------|----------------|-------|
| Frame Size | 182TC | |
| Frame Enclosure | TEFC | |
| Mounting | Rigid/C-Flange | |
| Insulation Class | F | |
| Duty | Cont. / S1 | |
| NEMA Design | A | |
| Frame Material | Cast Aluminum | |
| 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 | 50.0 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6306ZZ | |
| NDE Bearing | 6206ZZ | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavey washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 11.1842 | 254.0 |
| Pull-Up Torque | 5.54809 | 126.0 |
| Breakdown Torque | 15.6315 | 355.0 |
| Full Load Torque | 4.40325 | 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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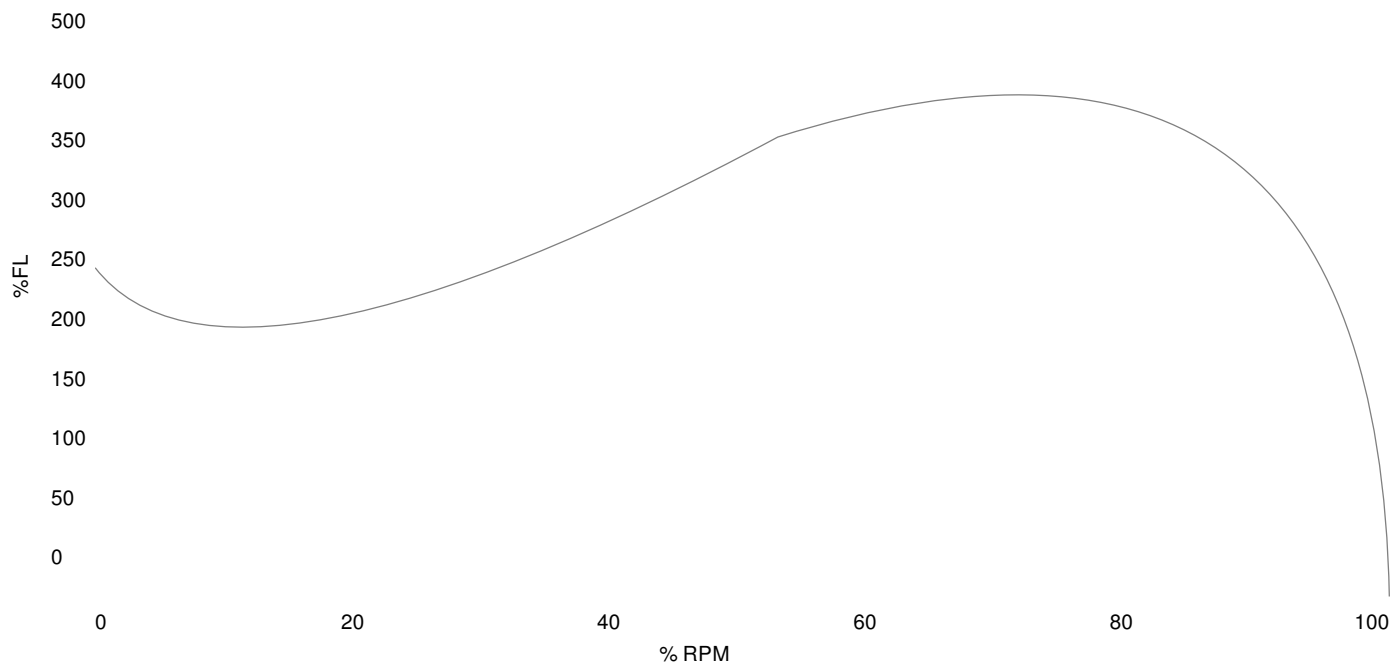
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Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 3.0HP, 3515 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 11.1842 | 254.0 | Start Configuration |
| Pull-Up Torque | 5.54809 | 126.0 | Starting Current (A) |
| Breakdown Torque | 15.6315 | 355.0 | No-Load Current (A) |
| Full Load | 4.40325 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 1.31 | - | - | - | - |
| 25 | 0.75 | 1.58 | 723.3 | 3579.3 | 76.04 | 0.58 |
| 50 | 1.5 | 2.13 | 1306.0 | 3561.2 | 84.23 | 0.77 |
| 75 | 2.25 | 2.79 | 1909.0 | 3541.2 | 86.43 | 0.86 |
| 100 | 3.0 | 3.56 | 2537.0 | 3519.6 | 86.72 | 0.9 |
| 125 | 3.75 | 4.39 | 3194.0 | 3496.3 | 86.1 | 0.91 |

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