



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | GR3-AL-TF-145TC-4-B-D-1.5 |
| FACTORY TYPE: | TXA |

Premium NEMA Cast Aluminum, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|-----------|
| | 60 Hz | 50 Hz |
| Horsepower | 1.5 | 1.5 |
| Speed, RPM | 1740 | 1430 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 4.36/2.18 | 5.06/2.53 |
| Power Factor | 0.74 | - |
| Nominal Efficiency | 86.5 | 84.7 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | H |
| FL Amps. @ 208 V | 4.48 | - |
| Locked Rotor Current | 17.4528 | - |
| 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% | 84.56 | 0.53 |
| 75% | 86.79 | 0.67 |
| 100% | 87.1 | 0.75 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 21.8 | 21.8 |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 145TC | |
| Frame Enclosure | TEFC | |
| Mounting | Rigid/C-Flange | |
| Insulation Class | F | |
| Duty | Cont. / S1 | |
| NEMA Design | B | |
| 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 | 34.5 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6205ZZ | |
| NDE Bearing | 6205ZZ | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 16.1544 | 351.0 |
| Pull-Up Torque | 14.8197 | 322.0 |
| Breakdown Torque | 18.9158 | 411.0 |
| Full Load Torque | 4.60239 | 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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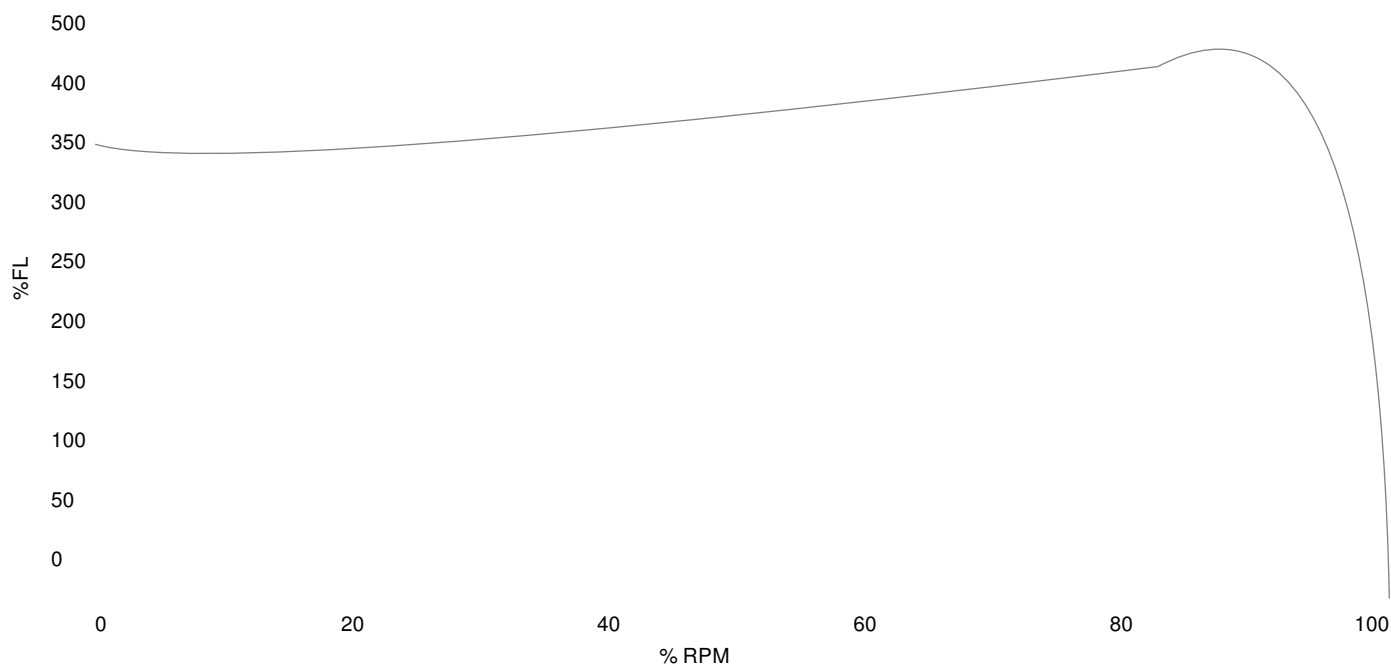
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Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 1.5HP, 1740 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 16.1544 | 351.0 | Start Configuration |
| Pull-Up Torque | 14.8197 | 322.0 | Starting Current (A) |
| Breakdown Torque | 18.9158 | 411.0 | No-Load Current (A) |
| Full Load | 4.60239 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 1.34 | - | - | - | - |
| 25 | 0.375 | 1.4 | 368.98 | 1787.5 | 76.22 | 0.33 |
| 50 | 0.75 | 1.57 | 665.18 | 1775.8 | 84.56 | 0.53 |
| 75 | 1.125 | 1.83 | 972.14 | 1763.0 | 86.79 | 0.67 |
| 100 | 1.5 | 2.16 | 1291.7 | 1749.1 | 87.1 | 0.75 |
| 125 | 1.875 | 2.54 | 1625.7 | 1734.1 | 86.5 | 0.8 |

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