



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | WX3-AL-TF-143TC-2-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 | 3500 | 2890 |
| Voltage | 230/460 | 190/380 |
| # Phase | 3 | |
| Full Load Amps | 4.12/2.06 | 4.74/2.37 |
| Power Factor | 0.8 | - |
| Nominal Efficiency | 84.0 | 83.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | L | H |
| FL Amps. @ 208 V | 4.2 | - |
| Locked Rotor Current | 18.2307 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 9 | |
| Connection | YY/Y | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 83.17 | 0.58 |
| 75% | 85.78 | 0.72 |
| 100% | 86.23 | 0.8 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 35.4 | 35.0 |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | | |
|--|----------------|--------------|-------|
| Frame Size | 143TC | | |
| Frame Enclosure | TEFC | | |
| Mounting | Rigid/C-Flange | | |
| Insulation Class | F | | |
| Duty | Cont. / S1 | | |
| NEMA Design | B | | |
| Frame Material | Cast Aluminum | | |
| Ingress Protection | 56 | | |
| Tropicalization | true | | |
| Cable Entry | 1-NPT 3/4" | | |
| Feet Removable | true | | |
| Double Drilled | - | | |
| Paint Color | - | | |
| Paint RAL | - | | |
| Weight lb | 25.0 | | |
| | | | |
| MECHANICAL DATA | | | |
| DE Bearing | 6205ZZ | | |
| NDE Bearing | 6205ZZ | | |
| dB No-Load | - | | |
| Rotor Wk ² , Lb-Ft ² | - | | |
| Comp Ring (wavey washer) | - | | |
| | | | |
| TORQUE VALUES | | Torque lb-ft | % FLT |
| Locked Rotor Torque | 7.18504 | 328.0 | |
| Pull-Up Torque | 4.99448 | 228.0 | |
| Breakdown Torque | 8.34603 | 381.0 | |
| Full Load Torque | 2.19056 | 100.0 | |
| | | | |
| SITE CONDITIONS | | | |
| Ambient Temp °C | 40 | | |
| Altitude Above Sea Level m | 1000 | | |

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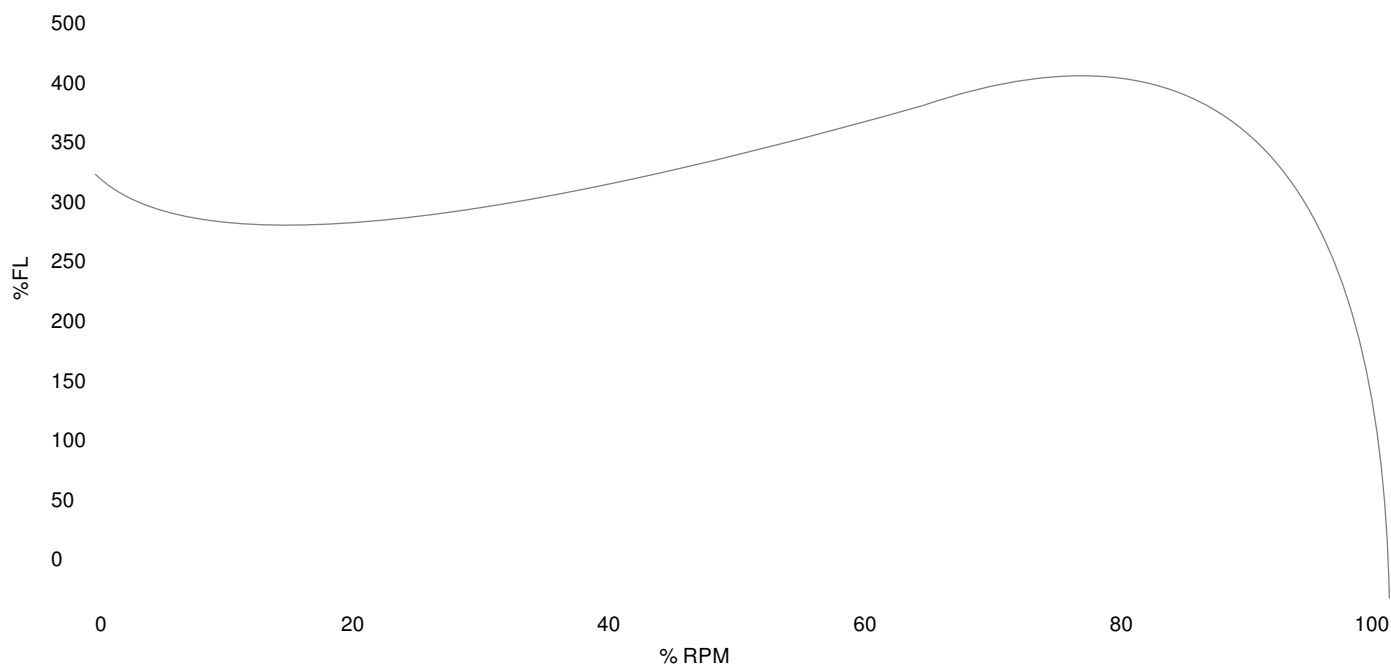
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Premium NEMA Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 1.5HP, 3500 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 7.18504 | 328.0 | Start Configuration | - |
| Pull-Up Torque | 4.99448 | 228.0 | Starting Current (A) | - |
| Breakdown Torque | 8.34603 | 381.0 | No-Load Current (A) | - |
| Full Load | 2.19056 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 1.22 | - | - | - | - |
| 25 | 0.375 | 1.27 | 372.11 | 3576.3 | 73.9 | 0.37 |
| 50 | 0.75 | 1.43 | 661.32 | 3556.2 | 83.17 | 0.58 |
| 75 | 1.125 | 1.69 | 961.82 | 3533.7 | 85.78 | 0.72 |
| 100 | 1.5 | 2.01 | 1275.7 | 3508.7 | 86.23 | 0.8 |
| 125 | 1.875 | 2.39 | 1605.2 | 3481.3 | 85.66 | 0.84 |

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