



NEMA Premium

NEMA

| | |
|----------------------|-----------------------------|
| MOTOR MODEL: | BR3-CI-TF-445TSC-2-BR-E-150 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 150.0 | 150.0 |
| Speed, RPM | 3575 | 2965 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 164.2651796 | 198 |
| Power Factor | 0.91 | - |
| Nominal Efficiency | 95.0 | 93.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | H | E |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 2244.77 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 6 | |
| Connection | D | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 94.5 | 0.84 |
| 75% | 95.31 | 0.9 |
| 100% | 95.4 | 0.92 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 79.0 | - |
| | | |
| 3D Image Link | | |
| BR3-CI-TF-445TSC-2-BR-E-150 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 445TSC | |
| Frame Enclosure | TEFC | |
| Mounting | Rigid/C-Flange | |
| Insulation Class | F | |
| Duty | Cont. / S1 | |
| NEMA Design | A | |
| Frame Material | Cast Iron | |
| Ingress Protection | 56 | |
| Tropicalization | true | |
| Cable Entry | 1-NPT 3" | |
| Feet Removable | - | |
| Double Drilled | true | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 1543.5 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6316C3 | |
| NDE Bearing | 6316C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 905.299 | 359.0 |
| Pull-Up Torque | 660.692 | 262.0 |
| Breakdown Torque | 1366.77 | 542.0 |
| Full Load Torque | 252.173 | 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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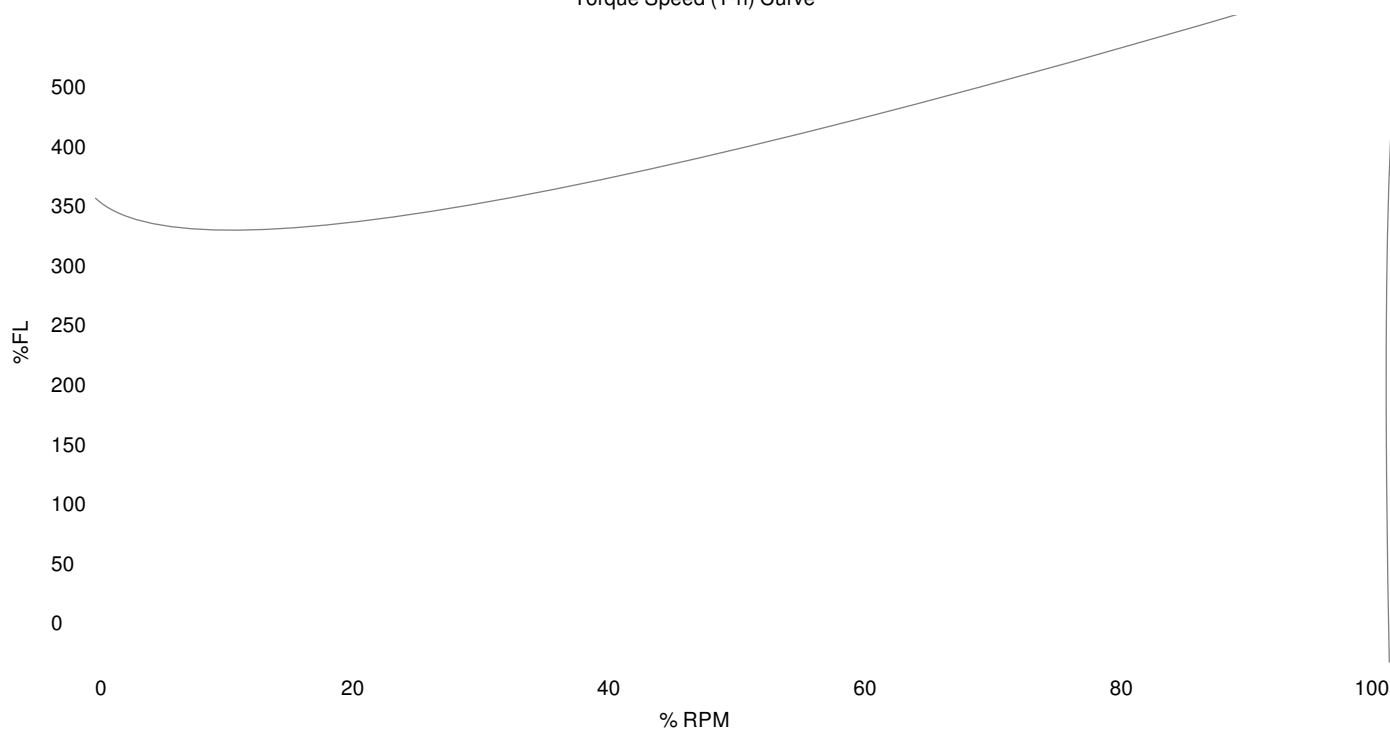
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 150.0HP, 3575 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 905.299 | 359.0 | Start Configuration |
| Pull-Up Torque | 660.692 | 262.0 | Starting Current (A) |
| Breakdown Torque | 1366.77 | 542.0 | No-Load Current (A) |
| Full Load | 252.173 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 46.94 | - | - | - | - |
| 25 | 37.5 | 66.5 | 35.33 | 3595.2 | 91.08 | 0.67 |
| 50 | 75.0 | 101.33 | 68.1 | 3590.6 | 94.5 | 0.84 |
| 75 | 112.5 | 141.18 | 101.28 | 3585.8 | 95.31 | 0.9 |
| 100 | 150.0 | 184.27 | 134.9 | 3580.8 | 95.4 | 0.92 |
| 125 | 187.5 | 210.93 | 155.28 | 3577.7 | 95.32 | 0.92 |

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