



NEMA Premium

NEMA

| | |
|----------------------|-----------------------------|
| MOTOR MODEL: | BR3-CI-TF-444TSC-2-BR-E-125 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 125.0 | 125.0 |
| Speed, RPM | 3575 | 2960 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 136.8876496 | 166 |
| Power Factor | 0.9 | - |
| Nominal Efficiency | 95.0 | 93.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.15 | 1.0 |
| KVA Code | M | E |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 1669.06 | - |
| 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% | 93.44 | 0.85 |
| 75% | 94.56 | 0.9 |
| 100% | 94.81 | 0.92 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 81.0 | - |
| | | |
| 3D Image Link | | |
| BR3-CI-TF-444TSC-2-BR-E-125 | | |

| GENERAL DATA | | |
|----------------------------|----------------|-------|
| Frame Size | 444TSC | |
| 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 | 1437.66 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6316C3 | |
| NDE Bearing | 6316C3 | |
| dB No-Load | - | |
| Rotor Wk², Lb-Ft² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | % FLT |
| Locked Rotor Torque | 693.434 | 330.0 |
| Pull-Up Torque | 310.995 | 148.0 |
| Breakdown Torque | 821.614 | 391.0 |
| Full Load Torque | 210.131 | 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.



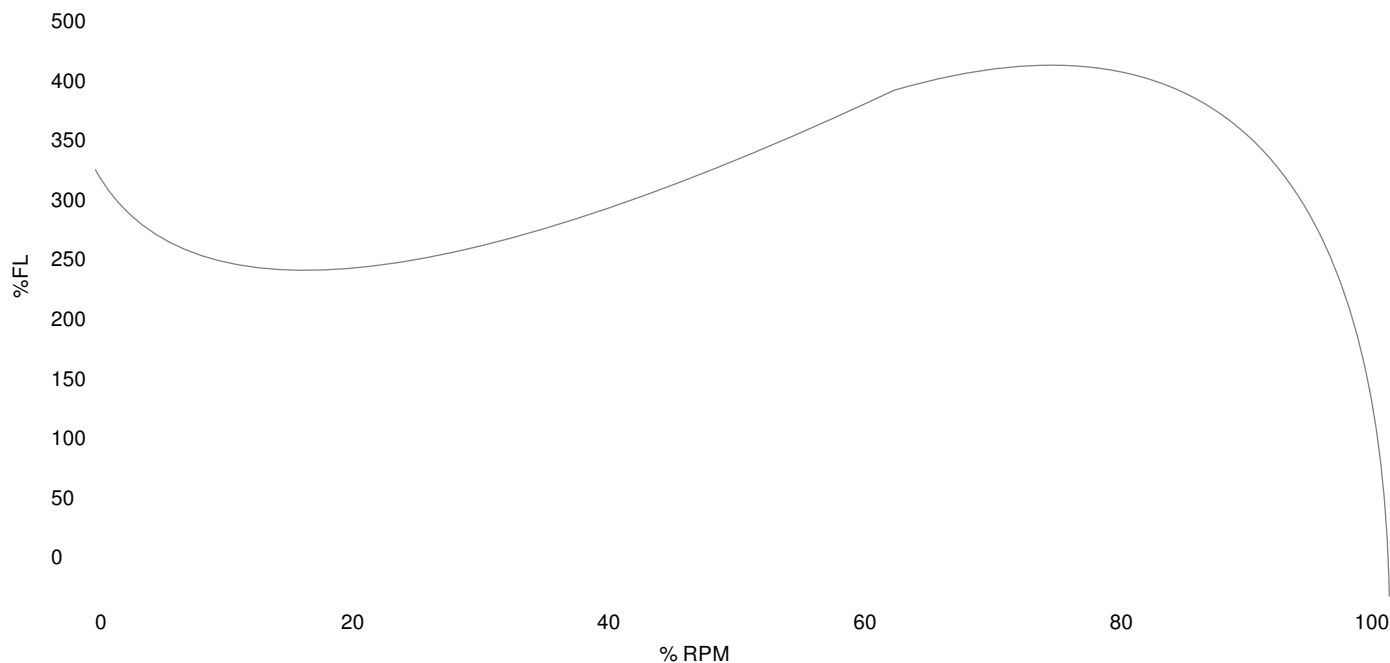
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 693.434 | 330.0 | Start Configuration | - |
| Pull-Up Torque | 310.995 | 148.0 | Starting Current (A) | - |
| Breakdown Torque | 821.614 | 391.0 | No-Load Current (A) | - |
| Full Load | 210.131 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 37.85 | - | - | - | - |
| 25 | 31.25 | 54.82 | 30.04 | 3594.5 | 89.21 | 0.89 |
| 50 | 62.5 | 84.97 | 57.36 | 3589.2 | 93.44 | 0.85 |
| 75 | 93.75 | 118.4 | 85.03 | 3583.6 | 94.56 | 0.9 |
| 100 | 125.0 | 154.45 | 113.07 | 3577.7 | 94.81 | 0.92 |
| 125 | 156.25 | 192.43 | 141.52 | 3571.6 | 94.69 | 0.92 |

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