



NEMA Premium

NEMA

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|----------------------|---------------------------|
| MOTOR MODEL: | BR3-CI-TF-254TC-4-BR-E-15 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 15.0 | 15.0 |
| Speed, RPM | 1760 | 1450 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 18.6 | - |
| Power Factor | 0.81 | - |
| Nominal Efficiency | 92.4 | 88.0 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | F |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 169.824 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 12 | |
| Connection | DD/D | |
| Coil Resistance | - | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 91.29 | 0.67 |
| 75% | 92.52 | 0.78 |
| 100% | 92.63 | 0.84 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 40.0 | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | | |
|--|----------------|--------------|-------|
| Frame Size | 254TC | | |
| 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 1-1/4" | | |
| Feet Removable | true | | |
| Double Drilled | - | | |
| Paint Color | Graphite Gray | | |
| Paint RAL | 7024 | | |
| Weight lb | 278.932 | | |
| | | | |
| MECHANICAL DATA | | | |
| DE Bearing | 6309C3 | | |
| NDE Bearing | 6309C3 | | |
| dB No-Load | - | | |
| Rotor Wk ² , Lb-Ft ² | - | | |
| Comp Ring (wavy washer) | - | | |
| | | | |
| TORQUE VALUES | | Torque lb-ft | % FLT |
| Locked Rotor Torque | 130.197 | 290.0 | |
| Pull-Up Torque | 109.994 | 245.0 | |
| Breakdown Torque | 173.745 | 387.0 | |
| Full Load Torque | 44.8954 | 100.0 | |
| | | | |
| SITE CONDITIONS | | | |
| Ambient Temp °C | 40 | | |
| Altitude Above Sea Level m | 1000 | | |



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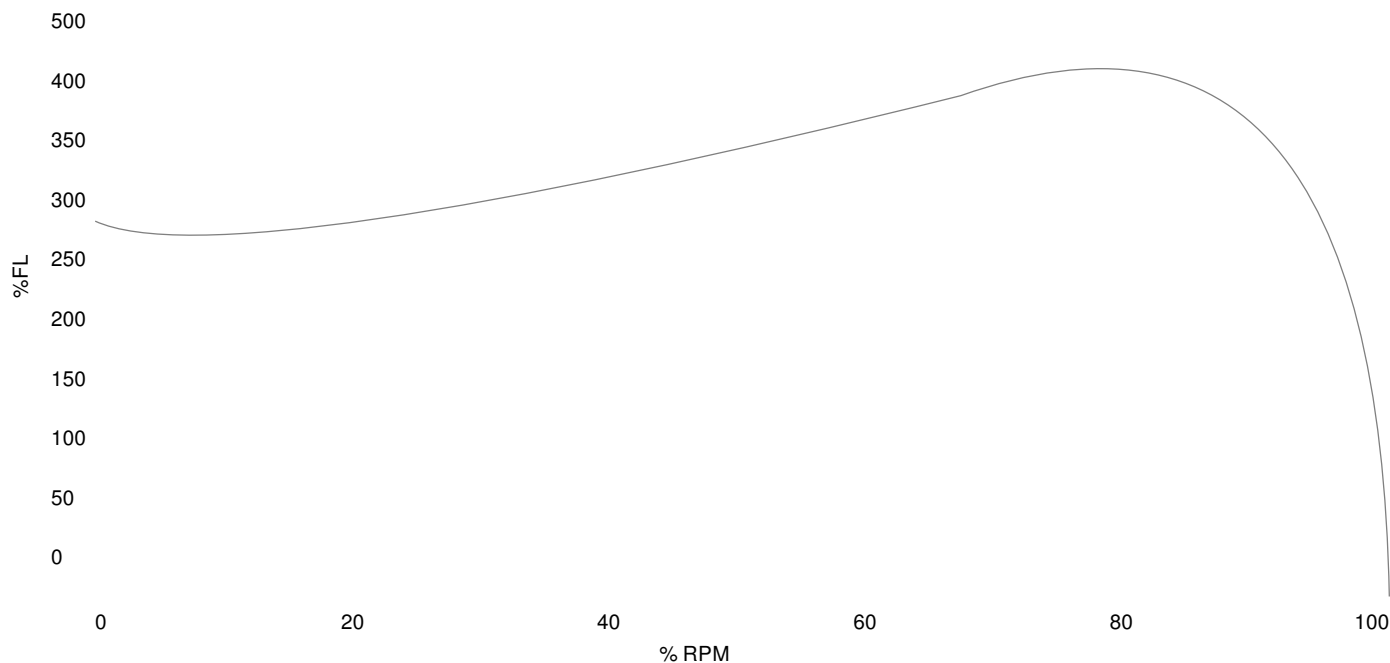
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 15.0HP, 1760 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 130.197 | 290.0 | Start Configuration |
| Pull-Up Torque | 109.994 | 245.0 | Starting Current (A) |
| Breakdown Torque | 173.745 | 387.0 | No-Load Current (A) |
| Full Load | 44.8954 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 8.37 | - | - | - | - |
| 25 | 3.75 | 9.23 | 3.28 | 1794.2 | 86.19 | 0.45 |
| 50 | 7.5 | 11.62 | 6.19 | 1788.5 | 91.29 | 0.67 |
| 75 | 11.25 | 14.7 | 9.16 | 1782.5 | 92.52 | 0.78 |
| 100 | 15.0 | 18.3 | 12.2 | 1776.1 | 92.63 | 0.84 |
| 125 | 18.75 | 22.25 | 15.31 | 1769.4 | 92.25 | 0.86 |

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