



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | BR3-CI-TF-256TC-4-BR-E-20 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|------------------------------|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 20.0 | 20.0 |
| Speed, RPM | 1760 | 1450 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 23.5 | - |
| Power Factor | 0.83 | - |
| Nominal Efficiency | 93.0 | 88.0 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | F |
| FL Amps. @ 208 V | - | - |
| Locked Rotor Current | 211.318 | - |
| Start Capacitor | - | - |
| Start Capacitor V | - | - |
| Run Capacitor | - | - |
| Run Capacitor V | - | - |
| Number of Leads | 12 | |
| Connection | DD/D | |
| Coil Resistance | - | - |
| | | |
| | | |
| Load | Efficiency % | P.F. |
| 50% | 91.95 | 0.74 |
| 75% | 92.77 | 0.83 |
| 100% | 92.58 | 0.87 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 51.0 | - |
| | | |
| 3D Image Link | | |
| Not available for this motor | | |

| GENERAL DATA | | | | |
|--|----------------|-------|--------------|-------|
| Frame Size | 256TC | | | |
| 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 | true | | | |
| Paint Color | Graphite Gray | | | |
| Paint RAL | 7024 | | | |
| Weight lb | 330.75 | | | |
| | | | | |
| 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 | 166.907 | 280.0 | | |
| Pull-Up Torque | 122.796 | 206.0 | | |
| Breakdown Torque | 209.826 | 352.0 | | |
| Full Load Torque | 59.6098 | 100.0 | | |
| | | | | |
| SITE CONDITIONS | | | | |
| Ambient Temp °C | 40 | | | |
| Altitude Above Sea Level m | 1000 | | | |



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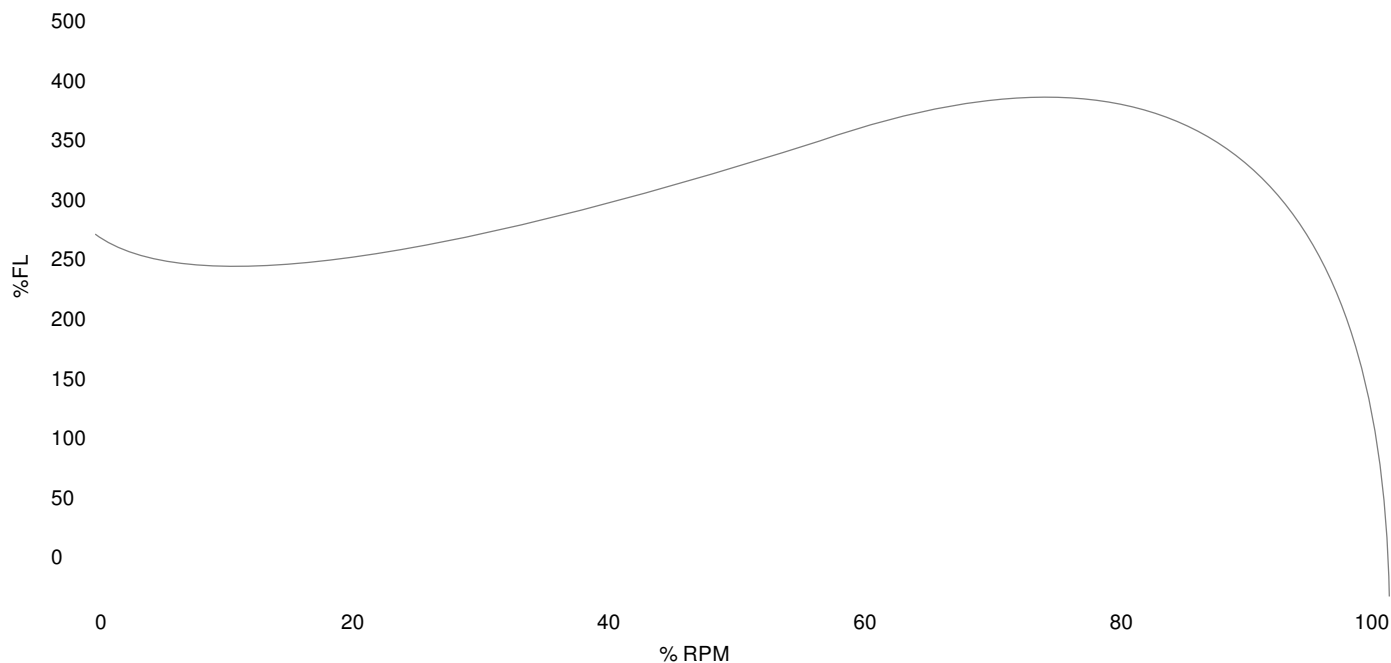
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 20.0HP, 1760 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 166.907 | 280.0 | Start Configuration |
| Pull-Up Torque | 122.796 | 206.0 | Starting Current (A) |
| Breakdown Torque | 209.826 | 352.0 | No-Load Current (A) |
| Full Load | 59.6098 | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 8.72 | - | - | - | - |
| 25 | 5.0 | 10.25 | 4.28 | 1793.3 | 87.68 | 0.52 |
| 50 | 10.0 | 13.84 | 8.16 | 1786.6 | 91.95 | 0.74 |
| 75 | 15.0 | 18.28 | 12.13 | 1779.4 | 92.77 | 0.83 |
| 100 | 20.0 | 23.35 | 16.2 | 1771.7 | 92.58 | 0.87 |
| 125 | 25.0 | 28.86 | 20.39 | 1763.5 | 91.95 | 0.89 |

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