NEMA Premium

# NEMA

| MOTOR MODEL: | BR3-CI-TF-256T-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 | 29 |
| 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 | - | - |
| LRC @ 60Hz HV | 211.318 | - |
| Start Capacitor | - | |
| Start Capacitor V | - | |
| Run Capacitor | - | |
| Run Capacitor V | - | |
| Number of Leads | 12 | |
| Connection | DD/D | |
| Coil Resistance | - | |
| Date Code | - | |
| | | |
| **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** | | |
| BR3-CI-TF-256T-4-BR-E-20 | | |

*This report valid for above Date Code and newer models, please contact Techtop for more info.

| GENERAL DATA | |
|---|---|
| Frame Size | 256T |
| Frame Enclosure | TEFC |
| Mounting | Rigid |
| 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 Wk², Lb-Ft² | - |
| Comp Ring (wavey washer) | DE |

| 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 | |

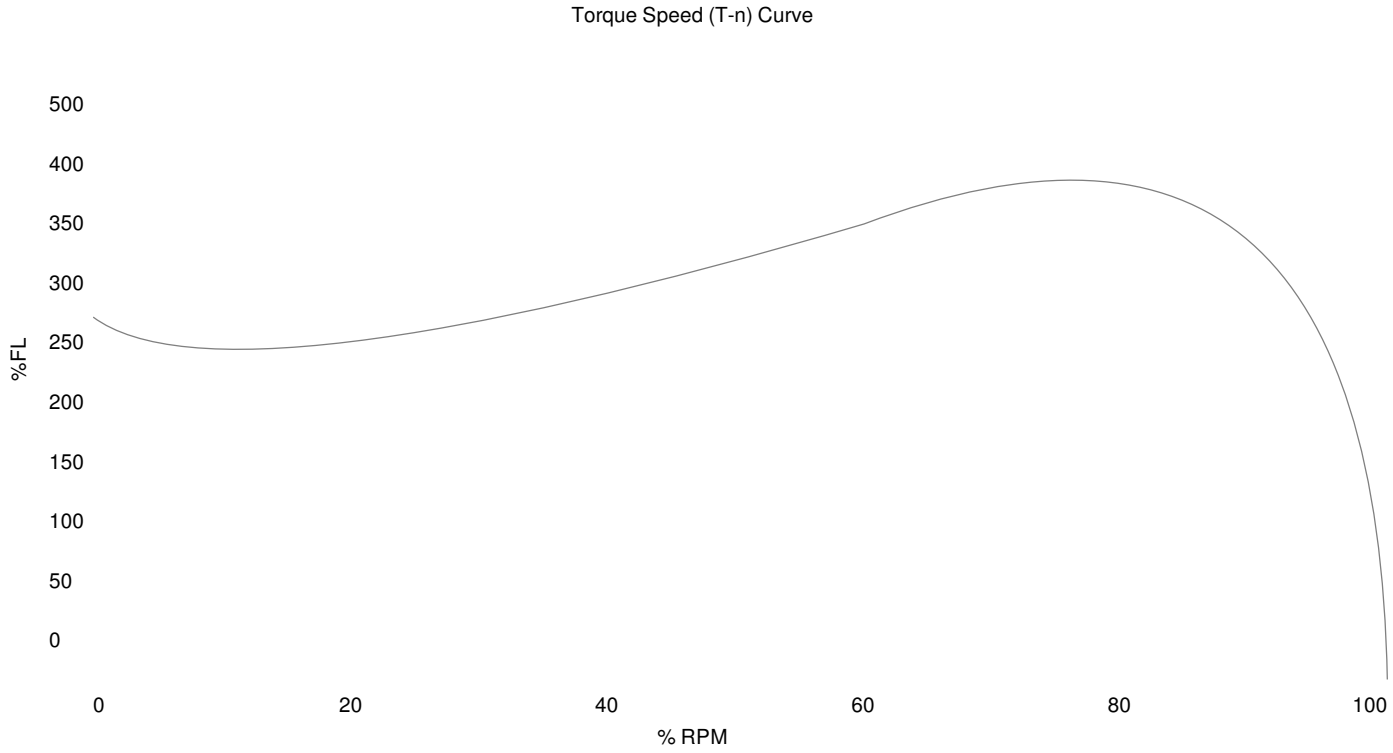
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| | |
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Performance Load Values, High Voltage, 60Hz

| 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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