NEMA Premium

# NEMA

| MOTOR MODEL: | BR3-CI-TF-324TS-2-BR-E-40 |
|---|---|
| FACTORY TYPE: | TXC |

## Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|---|---|
| | 60 Hz | 50 Hz |
| Horsepower | 40.0 | 40.0 |
| Speed, RPM | 3560 | 2940 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 46.5 | 56 |
| Power Factor | 0.89 | - |
| Nominal Efficiency | 92.4 | 90.0 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | H | F |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 344.434 | - |
| 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% | 90.37 | 0.82 |
| 75% | 91.99 | 0.88 |
| 100% | 92.34 | 0.9 |

| FULL LOAD TEMPERATURE RISE | | |
|---|---|---|
| FL Temp Rise °C | 67.0 | - |

| 3D Image Link |
|---|
| BR3-CI-TF-324TS-2-BR-E-40 |

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

| GENERAL DATA | |
|---|---|
| Frame Size | 324TS |
| 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 2" |
| Feet Removable | true |
| Double Drilled | - |
| Paint Color | Graphite Gray |
| Paint RAL | 7024 |
| Weight lb | 485.1 |

| MECHANICAL DATA | |
|---|---|
| DE Bearing | 6312C3 |
| NDE Bearing | 6312C3 |
| dB No-Load | - |
| Rotor Wk², Lb-Ft² | - |
| Comp Ring (wavey washer) | DE |

| TORQUE VALUES | Torque lb-ft | % FLT |
|---|---|---|
| Locked Rotor Torque | 140.239 | 235.0 |
| Pull-Up Torque | 74.5952 | 125.0 |
| Breakdown Torque | 140.836 | 236.0 |
| Full Load Torque | 59.6762 | 100.0 |

| SITE CONDITIONS | |
|---|---|
| Ambient Temp °C | 40 |
| Altitude Above Sea Level m | 1000 |

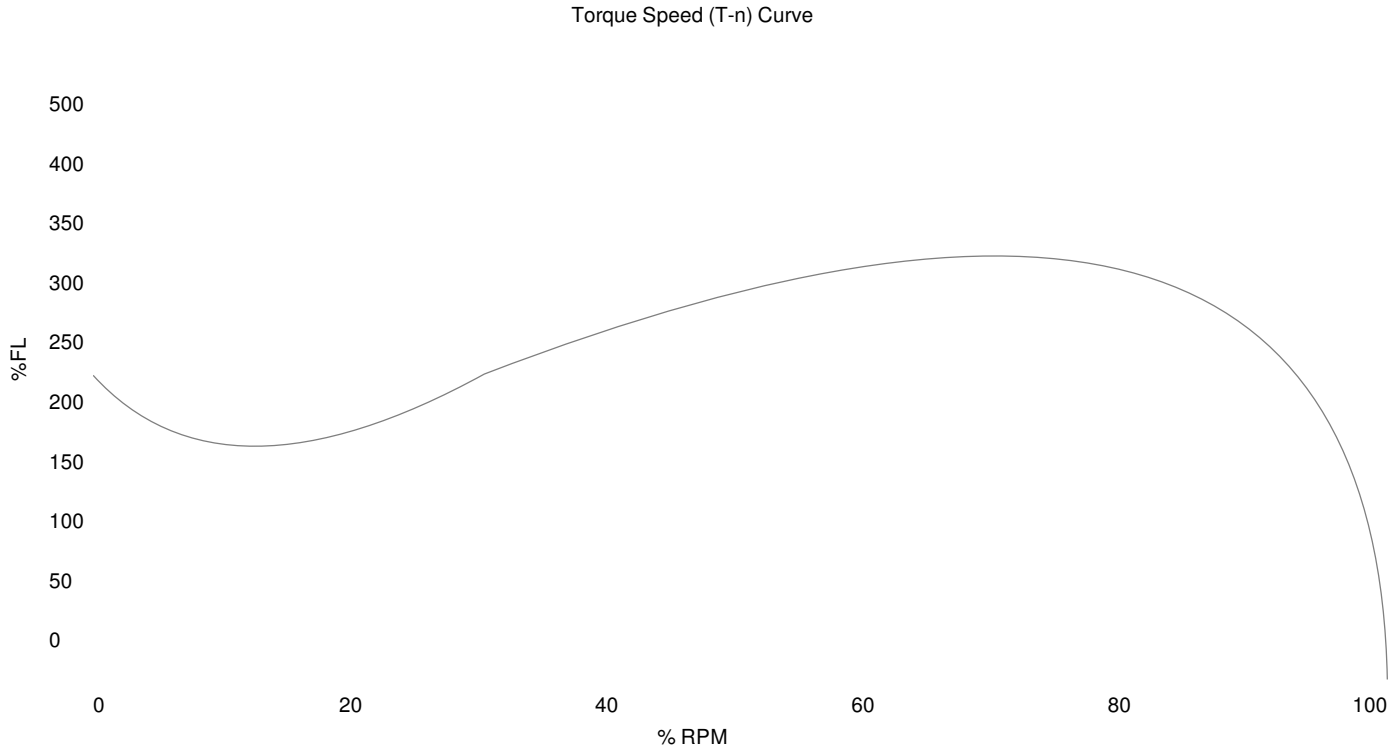
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| | |
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| **FACTORY TYPE:** | TXC |

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Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---|---|---|---|---|
| Locked Rotor Torque | 140.239 | 235.0 | Start Configuration | - |
| Pull-Up Torque | 74.5952 | 125.0 | Starting Current (A) | - |
| Breakdown Torque | 140.836 | 236.0 | No-Load Current (A) | - |
| Full Load | 59.6762 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|---|---|---|---|---|---|---|
| 0 | - | 12.48 | - | - | - | - |
| 25 | 10.0 | 16.87 | 8.88 | 3588.8 | 84.46 | 0.66 |
| 50 | 20.0 | 25.43 | 16.6 | 3578.7 | 90.37 | 0.82 |
| 75 | 30.0 | 35.03 | 24.46 | 3567.6 | 91.99 | 0.88 |
| 100 | 40.0 | 45.56 | 32.49 | 3555.4 | 92.34 | 0.9 |
| 125 | 50.0 | 56.88 | 40.71 | 3542.2 | 92.13 | 0.9 |

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