



NEMA Premium

NEMA

| | |
|----------------------|---------------------------|
| MOTOR MODEL: | BR3-CI-TF-284TC-4-BR-E-25 |
| FACTORY TYPE: | TXC |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA | | |
|---|--------------|-------|
| | 60 Hz | 50 Hz |
| Horsepower | 25.0 | 25.0 |
| Speed, RPM | 1770 | 1460 |
| Voltage | 460 | 380 |
| # Phase | 3 | |
| Full Load Amps | 29.6 | - |
| Power Factor | 0.85 | - |
| Nominal Efficiency | 93.6 | 90.5 |
| 3/4 Load Efficiency | - | - |
| Service Factor | 1.25 | 1.0 |
| KVA Code | K | F |
| FL Amps. @ 208 V | - | - |
| LRC @ 60Hz HV | 269.106 | - |
| 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% | 91.59 | 0.73 |
| 75% | 92.84 | 0.82 |
| 100% | 93.05 | 0.87 |
| | | |
| FULL LOAD TEMPERATURE RISE | | |
| FL Temp Rise °C | 51.0 | - |
| | | |
| 3D Image Link | | |
| BR3-CI-TF-284TC-4-BR-E-25 | | |

| GENERAL DATA | | |
|--|----------------|-------|
| Frame Size | 284TC | |
| 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 1-1/2" | |
| Feet Removable | true | |
| Double Drilled | - | |
| Paint Color | Graphite Gray | |
| Paint RAL | 7024 | |
| Weight lb | 366.03 | |
| | | |
| MECHANICAL DATA | | |
| DE Bearing | 6311C3 | |
| NDE Bearing | 6311C3 | |
| dB No-Load | - | |
| Rotor Wk ² , Lb-Ft ² | - | |
| Comp Ring (wavy washer) | - | |
| | | |
| TORQUE VALUES | | |
| | Torque lb-ft | % FLT |
| Locked Rotor Torque | 209.565 | 283.0 |
| Pull-Up Torque | 152.546 | 206.0 |
| Breakdown Torque | 259.179 | 350.0 |
| Full Load Torque | 74.0512 | 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 Techttop for more info.



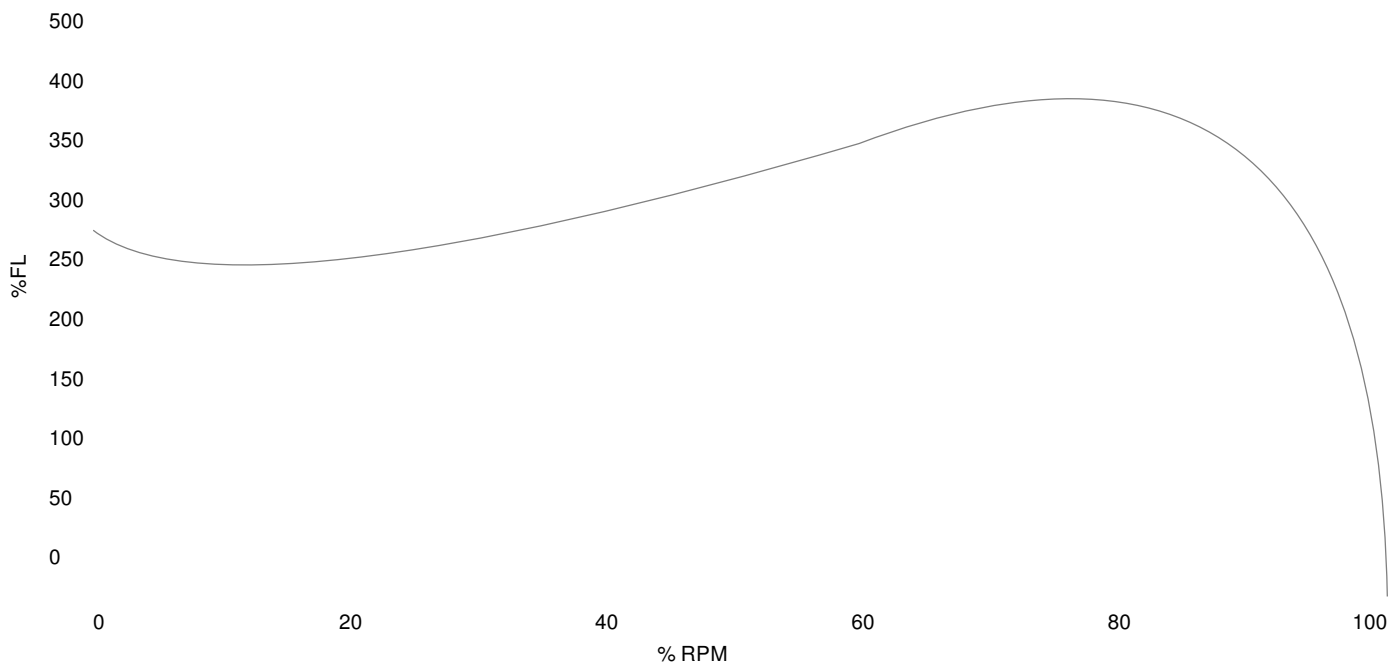
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Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values | Torque lb-ft | % FLT | Performance Values | |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 209.565 | 283.0 | Start Configuration | - |
| Pull-Up Torque | 152.546 | 206.0 | Starting Current (A) | - |
| Breakdown Torque | 259.179 | 350.0 | No-Load Current (A) | - |
| Full Load | 74.0512 | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0 | - | 11.63 | - | - | - | - |
| 25 | 6.25 | 11.99 | 5.36 | 1793.7 | 86.79 | 0.56 |
| 50 | 12.5 | 17.43 | 10.15 | 1788.3 | 91.59 | 0.73 |
| 75 | 18.75 | 22.92 | 15.03 | 1782.5 | 92.84 | 0.82 |
| 100 | 25.0 | 28.72 | 19.99 | 1776.1 | 93.05 | 0.87 |
| 125 | 31.25 | 35.08 | 25.06 | 1769.2 | 92.77 | 0.9 |

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