



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-444T-6-RR-E-100 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                           |              |       |
|---|--------------|-------|
|   | 60 Hz        | 50 Hz |
| Horsepower                                | 100.0        | 100.0 |
| Speed, RPM                                | 1180         | 985   |
| Voltage                                   | 460          | 380   |
| # Phase                                   | 3            |       |
| Full Load Amps                            | 114.6        | 139   |
| Power Factor                              | 0.86         | -     |
| Nominal Efficiency                        | 95.0         | 93.5  |
| 3/4 Load Efficiency                       | -            | -     |
| Service Factor                            | 1.15         | 1.0   |
| KVA Code                                  | H            | D     |
| FL Amps. @ 208 V                          | -            | -     |
| LRC @ 60Hz HV                             | 850.883      | -     |
| 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%                                       | 94.86        | 0.79  |
| 75%                                       | 95.51        | 0.85  |
| 100%                                      | 95.48        | 0.87  |
|   |              |       |
| FULL LOAD TEMPERATURE RISE                |              |       |
| FL Temp Rise °C                           | 76.0         | -     |
|   |              |       |
| 3D Image Link                             |              |       |
| <a href="#">BR3-CI-TF-444T-6-RR-E-100</a> |              |       |

| GENERAL DATA                               |               |       |              |       |
|--|---------------|-------|--------------|-------|
| Frame Size                                 | 444T          |       |              |       |
| 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 3"      |       |              |       |
| Feet Removable                             | -             |       |              |       |
| Double Drilled                             | true          |       |              |       |
| Paint Color                                | Graphite Gray |       |              |       |
| Paint RAL                                  | 7024          |       |              |       |
| Weight lb                                  | 1589.81       |       |              |       |
|  |               |       |              |       |
| MECHANICAL DATA                            |               |       |              |       |
| DE Bearing                                 | NU319         |       |              |       |
| NDE Bearing                                | 6319C3        |       |              |       |
| dB No-Load                                 | -             |       |              |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |              |       |
| Comp Ring (wavy washer)                    | None          |       |              |       |
|  |               |       |              |       |
| TORQUE VALUES                              |               |       | Torque lb-ft | % FLT |
| Locked Rotor Torque                        | 974.23        | 217.0 |              |       |
| Pull-Up Torque                             | 682.41        | 152.0 |              |       |
| Breakdown Torque                           | 1117.9        | 249.0 |              |       |
| Full Load Torque                           | 448.954       | 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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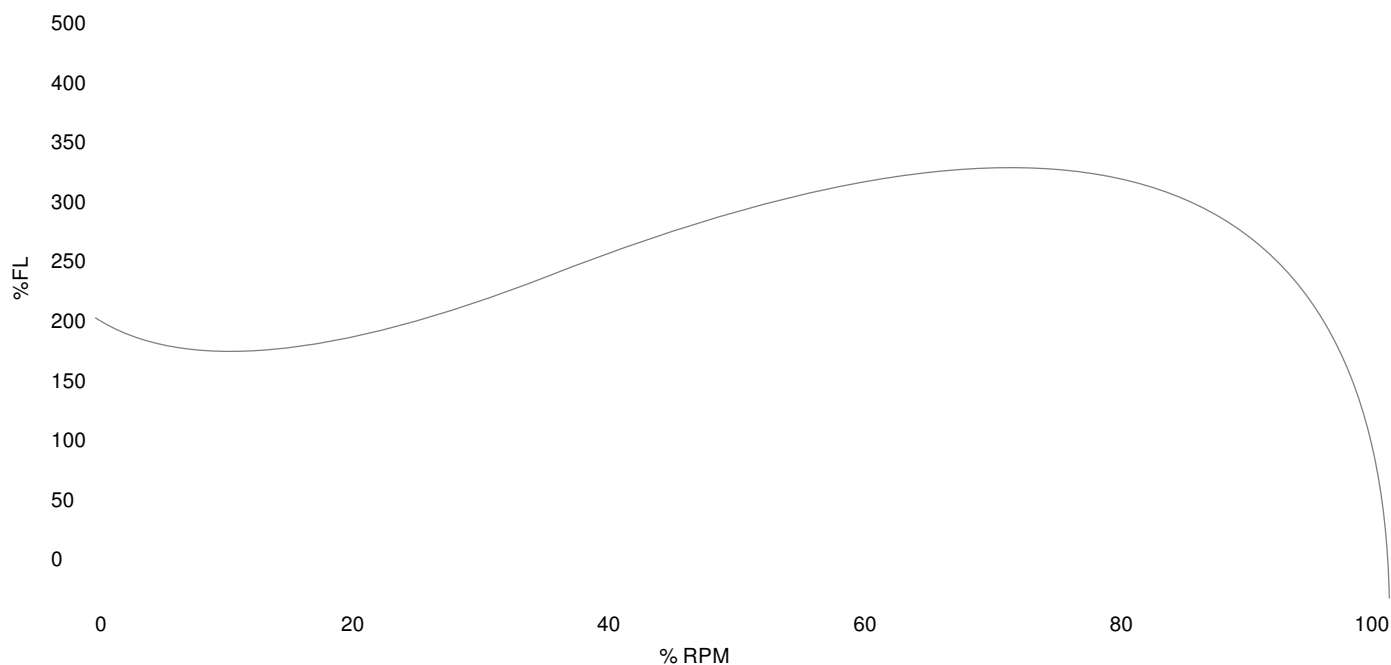
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |   |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 974.23       | 217.0 | Start Configuration  | - |
| Pull-Up Torque      | 682.41       | 152.0 | Starting Current (A) | - |
| Breakdown Torque    | 1117.9       | 249.0 | No-Load Current (A)  | - |
| Full Load           | 448.954      | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 33.69         | -                      | -          | -          | -    |
| 25     | 25.0       | 42.21         | 20.42                  | 1197.9     | 91.83      | 0.61 |
| 50     | 50.0       | 63.12         | 39.53                  | 1195.9     | 94.86      | 0.79 |
| 75     | 75.0       | 86.98         | 58.9                   | 1193.8     | 95.51      | 0.85 |
| 100    | 100.0      | 113.33        | 78.55                  | 1191.3     | 95.48      | 0.87 |
| 125    | 125.0      | 130.16        | 90.49                  | 1189.8     | 95.31      | 0.87 |

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