



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-326TC-4-BR-E-50 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                           |              |       |
|-------------------------------------------|--------------|-------|
|                                           | 60 Hz        | 50 Hz |
| Horsepower                                | 50.0         | 50.0  |
| Speed, RPM                                | 1770         | 1460  |
| Voltage                                   | 460          | 380   |
| # Phase                                   | 3            |       |
| Full Load Amps                            | 59.2         | -     |
| Power Factor                              | 0.87         | -     |
| Nominal Efficiency                        | 94.5         | 91.5  |
| 3/4 Load Efficiency                       | -            | -     |
| Service Factor                            | 1.25         | 1.0   |
| KVA Code                                  | K            | E     |
| FL Amps. @ 208 V                          | -            | -     |
| LRC @ 60Hz HV                             | 613.812      | -     |
| 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%                                       | 93.78        | 0.71  |
| 75%                                       | 94.29        | 0.81  |
| 100%                                      | 94.03        | 0.85  |
|                                           |              |       |
| FULL LOAD TEMPERATURE RISE                |              |       |
| FL Temp Rise °C                           | 82.0         | -     |
|                                           |              |       |
| 3D Image Link                             |              |       |
| <a href="#">BR3-CI-TF-326TC-4-BR-E-50</a> |              |       |

| GENERAL DATA                               |                |       |              |       |
|--------------------------------------------|----------------|-------|--------------|-------|
| Frame Size                                 | 326TC          |       |              |       |
| 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 2"       |       |              |       |
| Feet Removable                             | true           |       |              |       |
| Double Drilled                             | true           |       |              |       |
| Paint Color                                | Graphite Gray  |       |              |       |
| Paint RAL                                  | 7024           |       |              |       |
| Weight lb                                  | 600.862        |       |              |       |
|                                            |                |       |              |       |
| MECHANICAL DATA                            |                |       |              |       |
| DE Bearing                                 | 6312C3         |       |              |       |
| NDE Bearing                                | 6312C3         |       |              |       |
| dB No-Load                                 | -              |       |              |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -              |       |              |       |
| Comp Ring (wavey washer)                   | -              |       |              |       |
|                                            |                |       |              |       |
| TORQUE VALUES                              |                |       | Torque lb-ft | % FLT |
| Locked Rotor Torque                        | 506.56         | 299.0 |              |       |
| Pull-Up Torque                             | 333.754        | 197.0 |              |       |
| Breakdown Torque                           | 520.113        | 307.0 |              |       |
| Full Load Torque                           | 169.418        | 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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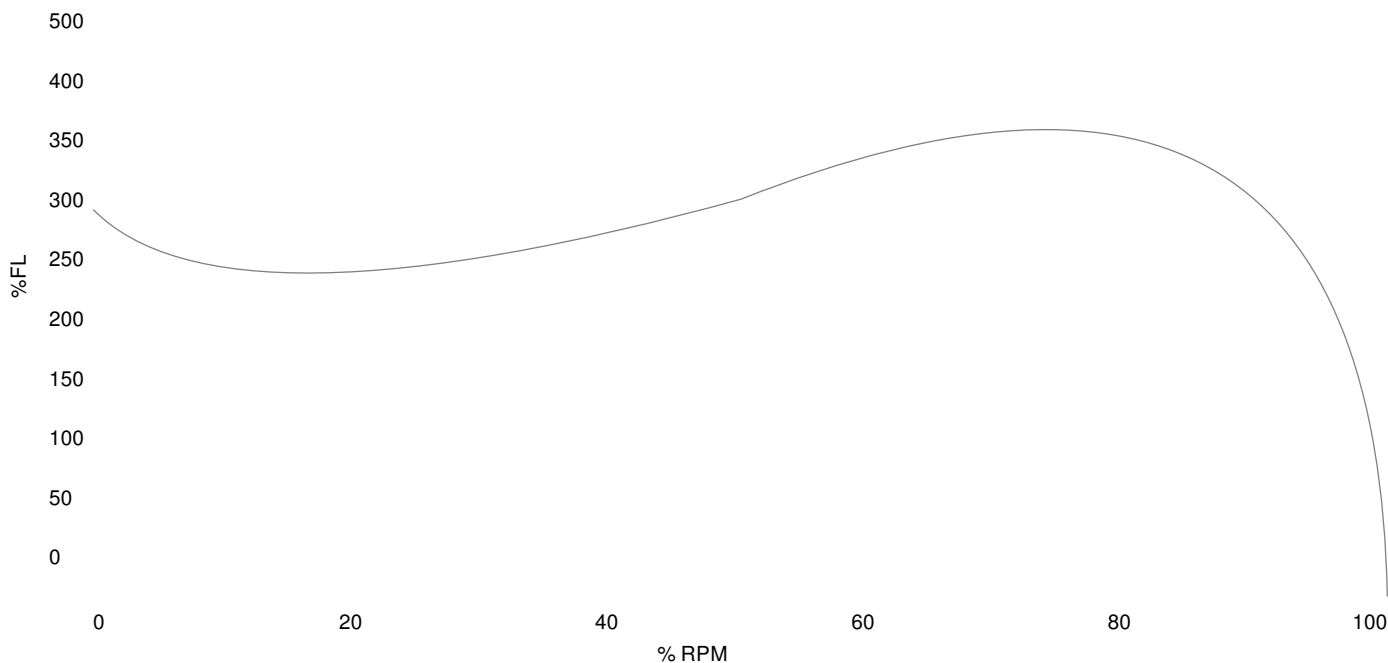
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 506.56       | 299.0 | Start Configuration  |
| Pull-Up Torque      | 333.754      | 197.0 | Starting Current (A) |
| Breakdown Torque    | 520.113      | 307.0 | No-Load Current (A)  |
| Full Load           | 169.418      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 26.53         | -                      | -          | -          | -    |
| 25     | 12.5       | 30.25         | 11.84                  | 1795.2     | 90.58      | 0.49 |
| 50     | 25.0       | 40.19         | 22.87                  | 1790.5     | 93.78      | 0.71 |
| 75     | 37.5       | 52.63         | 34.12                  | 1785.5     | 94.29      | 0.81 |
| 100    | 50.0       | 67.01         | 45.63                  | 1780.2     | 94.03      | 0.85 |
| 125    | 62.5       | 82.79         | 57.41                  | 1774.4     | 93.41      | 0.87 |

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