

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-254TC-2-BR-E-15 |
| <b>FACTORY TYPE:</b> | TXC                       |

## Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                           |              |       |
|---|--------------|-------|
|   | 60 Hz        | 50 Hz |
| Horsepower                                | 15.0         | 15.0  |
| Speed, RPM                                | 3540         | 2920  |
| Voltage                                   | 460          | 380   |
| # Phase                                   | 3            |       |
| Full Load Amps                            | 17.6         | -     |
| Power Factor                              | 0.88         | -     |
| Nominal Efficiency                        | 91.0         | 88.0  |
| 3/4 Load Efficiency                       | -            | -     |
| Service Factor                            | 1.25         | 1.0   |
| KVA Code                                  | L            | F     |
| FL Amps. @ 208 V                          | -            | -     |
| Locked Rotor Current                      | 208.506      | -     |
| 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%                                       | 87.1         | 0.71  |
| 75%                                       | 89.66        | 0.81  |
| 100%                                      | 90.53        | 0.86  |
| FULL LOAD TEMPERATURE RISE                |              |       |
| FL Temp Rise °C                           | 52.0         | -     |
| 3D Image Link                             |              |       |
| <a href="#">BR3-CI-TF-254TC-2-BR-E-15</a> |              |       |

| GENERAL DATA                               |                |       |
|--|----------------|-------|
| Frame Size                                 | 254TC          |       |
| 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 1-1/4"   |       |
| Feet Removable                             | true           |       |
| Double Drilled                             | -              |       |
| Paint Color                                | Graphite Gray  |       |
| Paint RAL                                  | 7024           |       |
| Weight lb                                  | 254.678        |       |
| MECHANICAL DATA                            |                |       |
| DE Bearing                                 | 6309C3         |       |
| NDE Bearing                                | 6309C3         |       |
| 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                        | 75.0398        | 337.0 |
| Pull-Up Torque                             | 42.9753        | 193.0 |
| Breakdown Torque                           | 88.1773        | 396.0 |
| Full Load Torque                           | 22.267         | 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.



NEMA Premium

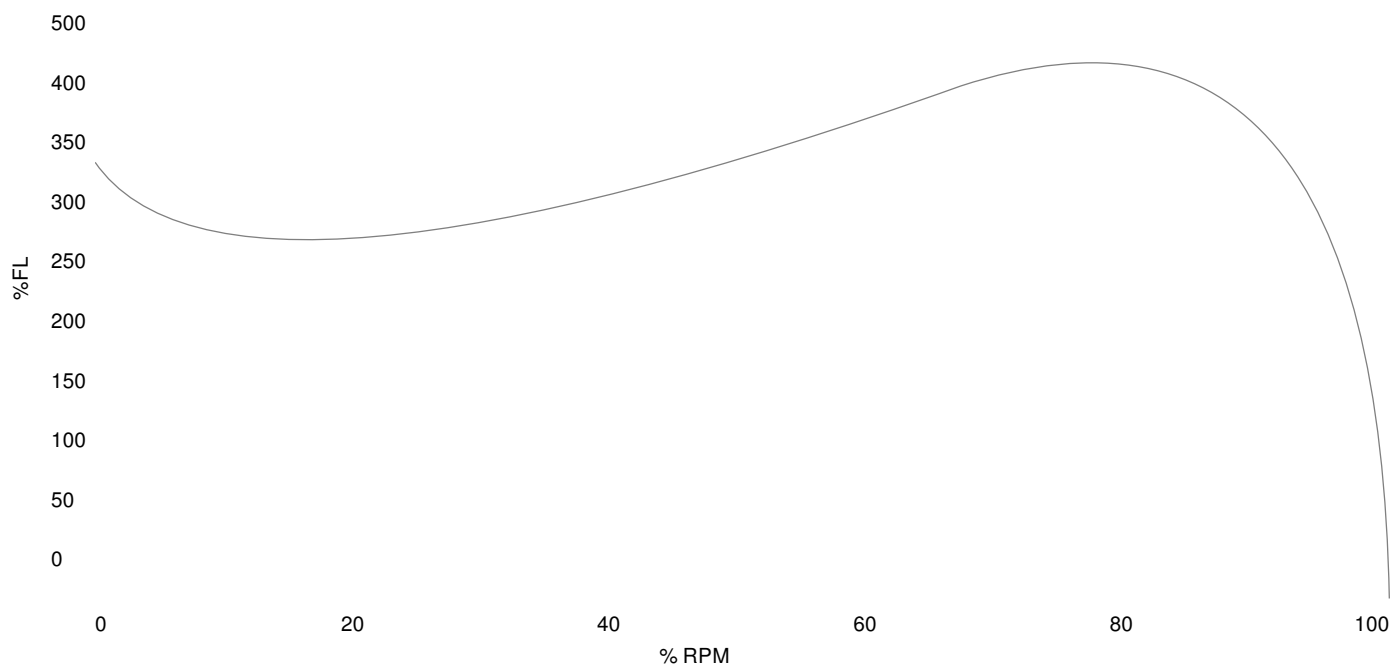
**NEMA**

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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 15.0HP, 3540 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 75.0398      | 337.0 | Start Configuration  |
| Pull-Up Torque      | 42.9753      | 193.0 | Starting Current (A) |
| Breakdown Torque    | 88.1773      | 396.0 | No-Load Current (A)  |
| Full Load           | 22.267       | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 8.01          | -                      | -          | -          | -    |
| 25     | 3.75       | 9.11          | 3.58                   | 3592.6     | 78.93      | 0.49 |
| 50     | 7.5        | 11.59         | 6.49                   | 3585.6     | 87.1       | 0.71 |
| 75     | 11.25      | 14.7          | 9.45                   | 3578.2     | 89.66      | 0.81 |
| 100    | 15.0       | 18.29         | 12.48                  | 3570.4     | 90.53      | 0.86 |
| 125    | 18.75      | 22.21         | 15.58                  | 3562.3     | 90.67      | 0.88 |

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