



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-284TS-2-BR-E-25 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                           |              |       |
|---|--------------|-------|
|   | 60 Hz        | 50 Hz |
| Horsepower                                | 25.0         | 25.0  |
| Speed, RPM                                | 3550         | 2930  |
| Voltage                                   | 460          | 380   |
| # Phase                                   | 3            |       |
| Full Load Amps                            | 28.9         | -     |
| Power Factor                              | 0.89         | -     |
| Nominal Efficiency                        | 91.7         | 89.0  |
| 3/4 Load Efficiency                       | -            | -     |
| Service Factor                            | 1.25         | 1.0   |
| KVA Code                                  | M            | F     |
| FL Amps. @ 208 V                          | -            | -     |
| Locked Rotor Current                      | 353.963      | -     |
| 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%                                       | 89.54        | 0.71  |
| 75%                                       | 91.42        | 0.81  |
| 100%                                      | 91.96        | 0.86  |
|   |              |       |
| FULL LOAD TEMPERATURE RISE                |              |       |
| FL Temp Rise °C                           | 56.0         | -     |
|   |              |       |
| 3D Image Link                             |              |       |
| <a href="#">BR3-CI-TF-284TS-2-BR-E-25</a> |              |       |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 284TS         |       |
| 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 1-1/2"  |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | -             |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 353.902       |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6311C3        |       |
| NDE Bearing                                | 6311C3        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavey washer)                   | DE            |       |
|  |               |       |
| TORQUE VALUES                              |               |       |
|  | Torque lb-ft  | % FLT |
| Locked Rotor Torque                        | 127.93        | 346.0 |
| Pull-Up Torque                             | 73.5782       | 199.0 |
| Breakdown Torque                           | 157.509       | 426.0 |
| Full Load Torque                           | 36.974        | 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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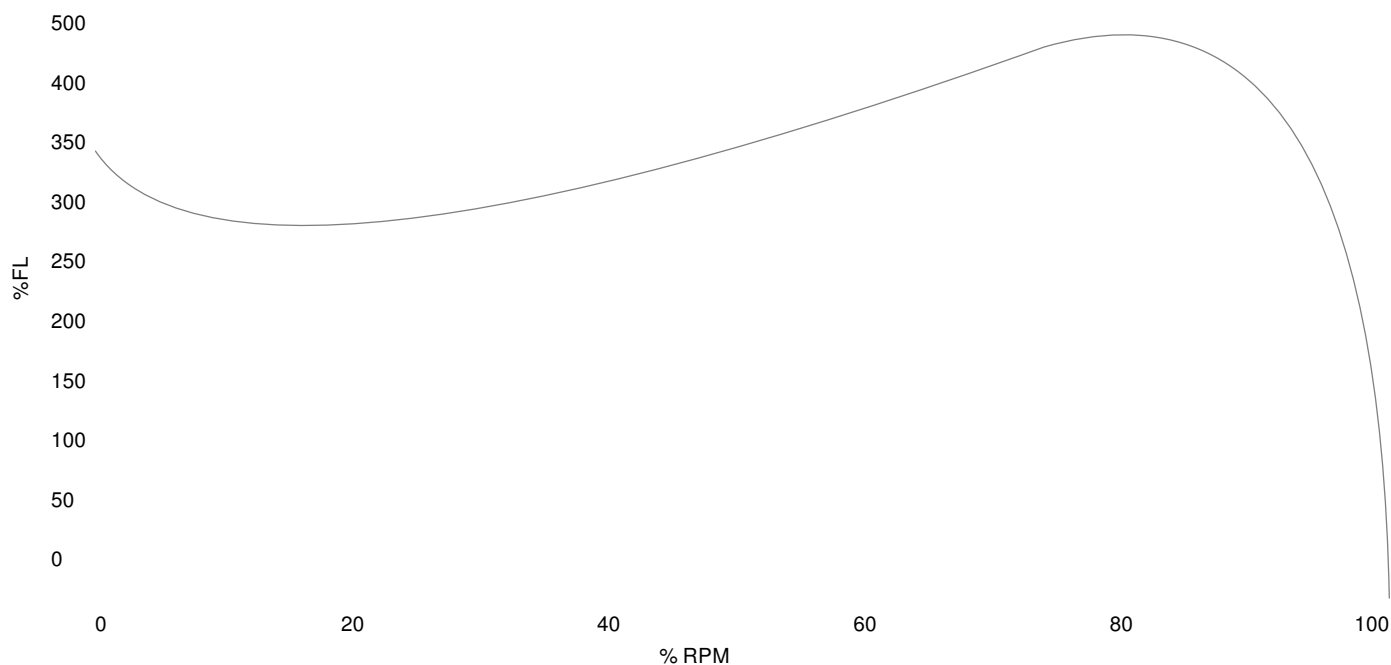
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 25.0HP, 3550 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 127.93       | 346.0 | Start Configuration  |
| Pull-Up Torque      | 73.5782      | 199.0 | Starting Current (A) |
| Breakdown Torque    | 157.509      | 426.0 | No-Load Current (A)  |
| Full Load           | 36.974       | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 12.34         | -                      | -          | -          | -    |
| 25     | 6.25       | 13.71         | 5.6                    | 3591.4     | 83.02      | 0.51 |
| 50     | 12.5       | 18.36         | 10.39                  | 3582.8     | 89.54      | 0.71 |
| 75     | 18.75      | 23.72         | 15.26                  | 3573.7     | 91.42      | 0.81 |
| 100    | 25.0       | 29.67         | 20.23                  | 3564.1     | 91.96      | 0.86 |
| 125    | 31.25      | 36.11         | 25.3                   | 3554.1     | 91.91      | 0.88 |

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