



NEMA Premium

**NEMA**

|                      |                            |
|----------------------|----------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-284TSC-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-284TSC-2-BR-E-25</a> |              |       |

| GENERAL DATA                               |                |       |
|--|----------------|-------|
| Frame Size                                 | 284TSC         |       |
| 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                                  | 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)                   | -              |       |
|  |                |       |
| 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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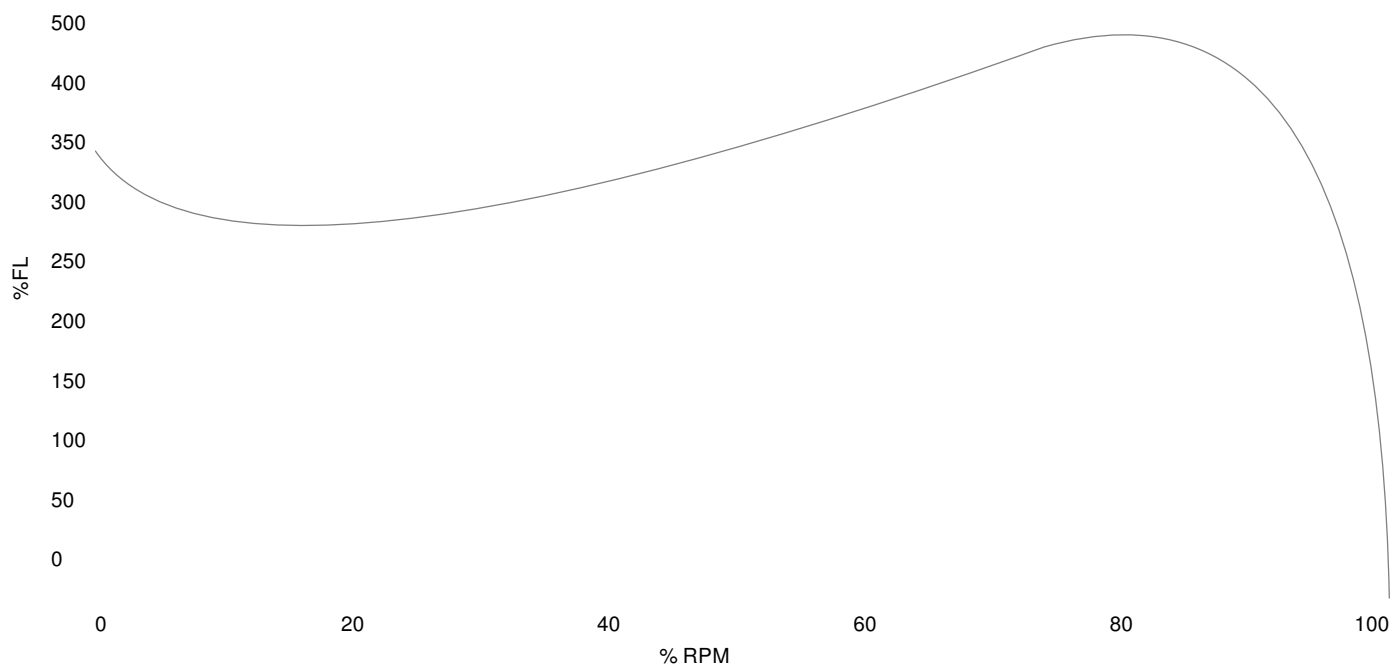
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Premium NEMA Cast Iron, TEFC

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 |

Techtop Industries  
 2815 Colonnades Court  
 Peachtree Corners, GA 30071  
 Tel: 678-436-5540  
 E-Mail: info@techttopind.com