



NEMA Premium

**NEMA**

|                      |                            |
|----------------------|----------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-365TSC-2-BR-E-75 |
| <b>FACTORY TYPE:</b> | TXC                        |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |       |
|------------------------------|--------------|-------|
|                              | 60 Hz        | 50 Hz |
| Horsepower                   | 75.0         | 75.0  |
| Speed, RPM                   | 3560         | 2940  |
| Voltage                      | 460          | 380   |
| # Phase                      | 3            |       |
| Full Load Amps               | 84.3         | -     |
| Power Factor                 | 0.9          | -     |
| Nominal Efficiency           | 93.6         | 91.2  |
| 3/4 Load Efficiency          | -            | -     |
| Service Factor               | 1.15         | 1.0   |
| KVA Code                     | K            | F     |
| FL Amps. @ 208 V             | -            | -     |
| Locked Rotor Current         | 941.877      | -     |
| Start Capacitor              | -            |       |
| Start Capacitor V            | -            |       |
| Run Capacitor                | -            |       |
| Run Capacitor V              | -            |       |
| Number of Leads              | 12           |       |
| Connection                   | DD/D         |       |
| Coil Resistance              | -            |       |
|                              |              |       |
|                              |              |       |
| Load                         | Efficiency % | P.F.  |
| 50%                          | 92.53        | 0.83  |
| 75%                          | 93.68        | 0.89  |
| 100%                         | 93.68        | 0.89  |
|                              |              |       |
| FULL LOAD TEMPERATURE RISE   |              |       |
| FL Temp Rise °C              | 62.0         | -     |
|                              |              |       |
| 3D Image Link                |              |       |
| Not available for this motor |              |       |

| GENERAL DATA                               |                |       |
|--|----------------|-------|
| Frame Size                                 | 365TSC         |       |
| 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                             | -              |       |
| Double Drilled                             | true           |       |
| Paint Color                                | Graphite Gray  |       |
| Paint RAL                                  | 7024           |       |
| Weight lb                                  | 784.98         |       |
|  |                |       |
| MECHANICAL DATA                            |                |       |
| DE Bearing                                 | 6313C3         |       |
| NDE Bearing                                | 6313C3         |       |
| 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                        | 447.777        | 408.0 |
| Pull-Up Torque                             | 210.719        | 192.0 |
| Breakdown Torque                           | 409.365        | 373.0 |
| Full Load Torque                           | 109.749        | 100.0 |
|  |                |       |
| SITE CONDITIONS                            |                |       |
| Ambient Temp °C                            | 40             |       |
| Altitude Above Sea Level m                 | 1000           |       |



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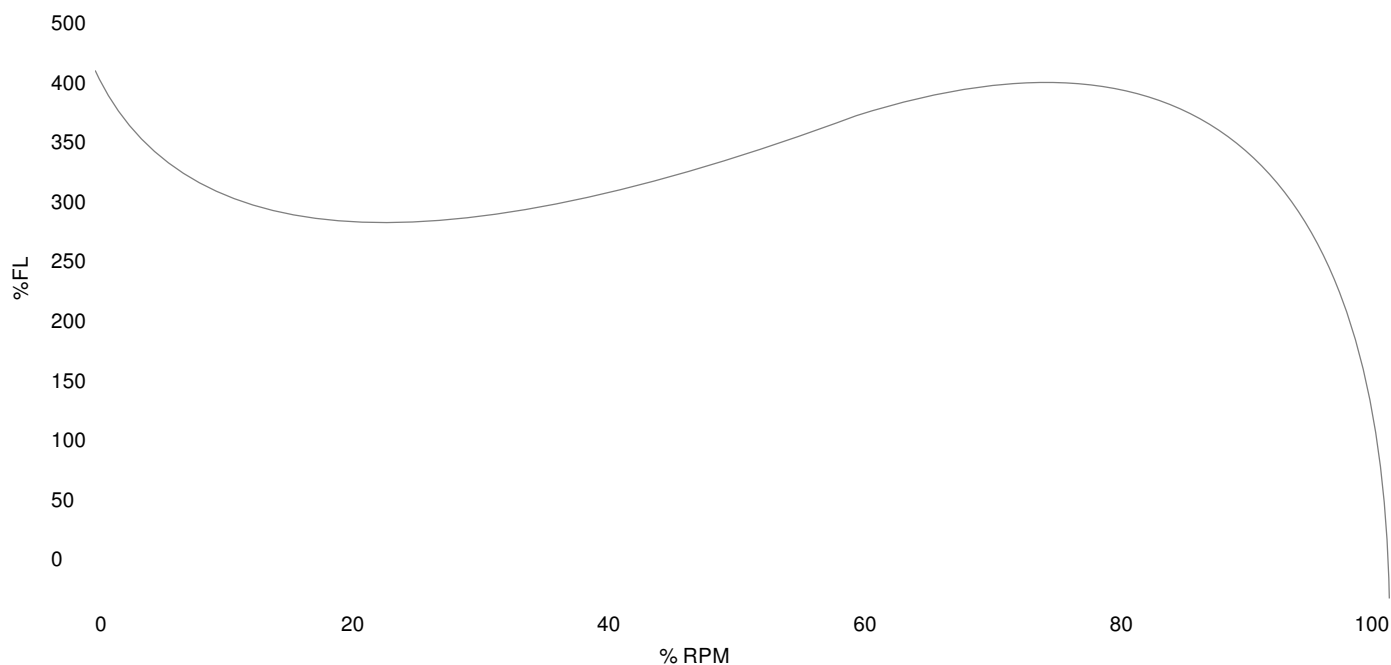
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 75.0HP, 3560 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 447.777      | 408.0 | Start Configuration  |
| Pull-Up Torque      | 210.719      | 192.0 | Starting Current (A) |
| Breakdown Torque    | 409.365      | 373.0 | No-Load Current (A)  |
| Full Load           | 109.749      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 21.47         | -                      | -          | -          | -    |
| 25     | 18.75      | 29.98         | 15.92                  | 3593.2     | 87.92      | 0.67 |
| 50     | 37.5       | 45.56         | 30.26                  | 3586.7     | 92.53      | 0.83 |
| 75     | 56.25      | 63.16         | 44.83                  | 3579.8     | 93.68      | 0.89 |
| 100    | 75.0       | 63.16         | 44.83                  | 3579.8     | 93.68      | 0.89 |
| 125    | 93.75      | 102.35        | 74.74                  | 3565.1     | 93.66      | 0.92 |

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