



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | BR3-CI-TF-256TC-4-BR-E-20 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA              |              |       |
|------------------------------|--------------|-------|
|                              | 60 Hz        | 50 Hz |
| Horsepower                   | 20.0         | 20.0  |
| Speed, RPM                   | 1760         | 1450  |
| Voltage                      | 460          | 380   |
| # Phase                      | 3            |       |
| Full Load Amps               | 23.5         | -     |
| Power Factor                 | 0.83         | -     |
| Nominal Efficiency           | 93.0         | 88.0  |
| 3/4 Load Efficiency          | -            | -     |
| Service Factor               | 1.25         | 1.0   |
| KVA Code                     | K            | F     |
| FL Amps. @ 208 V             | -            | -     |
| Locked Rotor Current         | 211.318      | -     |
| Start Capacitor              | -            |       |
| Start Capacitor V            | -            |       |
| Run Capacitor                | -            |       |
| Run Capacitor V              | -            |       |
| Number of Leads              | 12           |       |
| Connection                   | DD/D         |       |
| Coil Resistance              | -            |       |
|                              |              |       |
| Load                         | Efficiency % | P.F.  |
| 50%                          | 91.95        | 0.74  |
| 75%                          | 92.77        | 0.83  |
| 100%                         | 92.58        | 0.87  |
|                              |              |       |
| FULL LOAD TEMPERATURE RISE   |              |       |
| FL Temp Rise °C              | 51.0         | -     |
|                              |              |       |
| 3D Image Link                |              |       |
| Not available for this motor |              |       |

| GENERAL DATA                               |                |       |
|--|----------------|-------|
| Frame Size                                 | 256TC          |       |
| 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                             | true           |       |
| Paint Color                                | Graphite Gray  |       |
| Paint RAL                                  | 7024           |       |
| Weight lb                                  | 330.75         |       |
|  |                |       |
| MECHANICAL DATA                            |                |       |
| DE Bearing                                 | 6309C3         |       |
| NDE Bearing                                | 6309C3         |       |
| dB No-Load                                 | -              |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -              |       |
| Comp Ring (wavy washer)                    | -              |       |
|  |                |       |
| TORQUE VALUES                              | Torque lb-ft   | % FLT |
| Locked Rotor Torque                        | 166.907        | 280.0 |
| Pull-Up Torque                             | 122.796        | 206.0 |
| Breakdown Torque                           | 209.826        | 352.0 |
| Full Load Torque                           | 59.6098        | 100.0 |
|  |                |       |
| SITE CONDITIONS                            |                |       |
| Ambient Temp °C                            | 40             |       |
| Altitude Above Sea Level m                 | 1000           |       |

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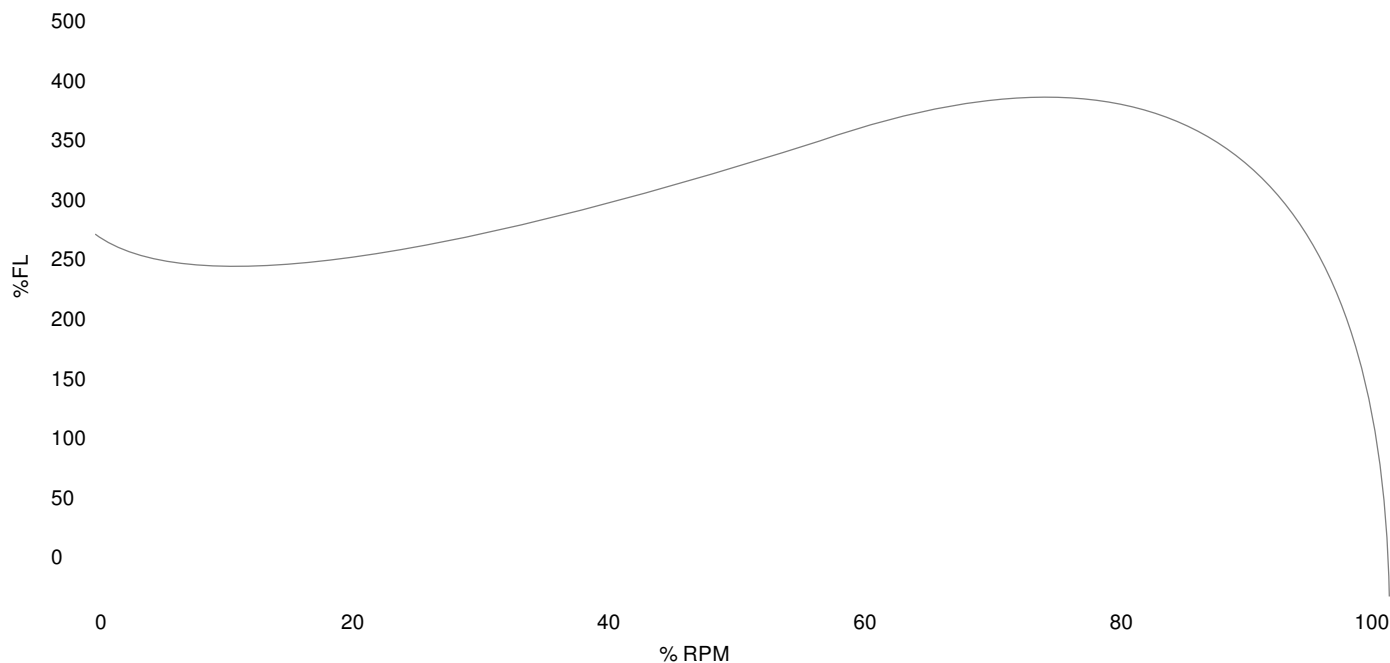
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 20.0HP, 1760 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 166.907      | 280.0 | Start Configuration  |
| Pull-Up Torque      | 122.796      | 206.0 | Starting Current (A) |
| Breakdown Torque    | 209.826      | 352.0 | No-Load Current (A)  |
| Full Load           | 59.6098      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 8.72          | -                      | -          | -          | -    |
| 25     | 5.0        | 10.25         | 4.28                   | 1793.3     | 87.68      | 0.52 |
| 50     | 10.0       | 13.84         | 8.16                   | 1786.6     | 91.95      | 0.74 |
| 75     | 15.0       | 18.28         | 12.13                  | 1779.4     | 92.77      | 0.83 |
| 100    | 20.0       | 23.35         | 16.2                   | 1771.7     | 92.58      | 0.87 |
| 125    | 25.0       | 28.86         | 20.39                  | 1763.5     | 91.95      | 0.89 |

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