



NEMA Premium

**NEMA**

|                      |                          |
|----------------------|--------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-256T-2-BR-D-20 |
| <b>FACTORY TYPE:</b> | TXC                      |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                          |              |           |
|--|--------------|-----------|
|  | 60 Hz        | 50 Hz     |
| Horsepower                               | 20.0         | 20.0      |
| Speed, RPM                               | 3530         | 2920      |
| Voltage                                  | 230/460      | 190/380   |
| # Phase                                  | 3            |           |
| Full Load Amps                           | 45.23/22.61  | 58.8/29.4 |
| Power Factor                             | 0.89         | -         |
| Nominal Efficiency                       | 91.0         | 88.0      |
| 3/4 Load Efficiency                      | -            | -         |
| Service Factor                           | 1.25         | 1.0       |
| KVA Code                                 | K            | F         |
| FL Amps. @ 208 V                         | 50.0106      | -         |
| LRC @ 60Hz HV                            | 288.478      | -         |
| 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%                                      | 88.28        | 0.7       |
| 75%                                      | 90.59        | 0.8       |
| 100%                                     | 91.36        | 0.86      |
|  |              |           |
| FULL LOAD TEMPERATURE RISE               |              |           |
| FL Temp Rise °C                          | 58.0         | -         |
|  |              |           |
| 3D Image Link                            |              |           |
| <a href="#">GR3-CI-TF-256T-2-BR-D-20</a> |              |           |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 256T          |       |
| Frame Enclosure                            | TEFC          |       |
| Mounting                                   | Rigid         |       |
| Insulation Class                           | F             |       |
| Duty                                       | Cont. / S1    |       |
| NEMA Design                                | A             |       |
| Frame Material                             | Cast Iron     |       |
| Ingress Protection                         | 55            |       |
| Tropicalization                            | true          |       |
| Cable Entry                                | 1-NPT 1-1/4"  |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | true          |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 275.625       |       |
|  |               |       |
| 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)                   | DE            |       |
|  |               |       |
| TORQUE VALUES                              |               | % FLT |
| Locked Rotor Torque                        | 105.645       | 358.0 |
| Pull-Up Torque                             | 61.6756       | 209.0 |
| Breakdown Torque                           | 130.138       | 441.0 |
| Full Load Torque                           | 29.5099       | 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.



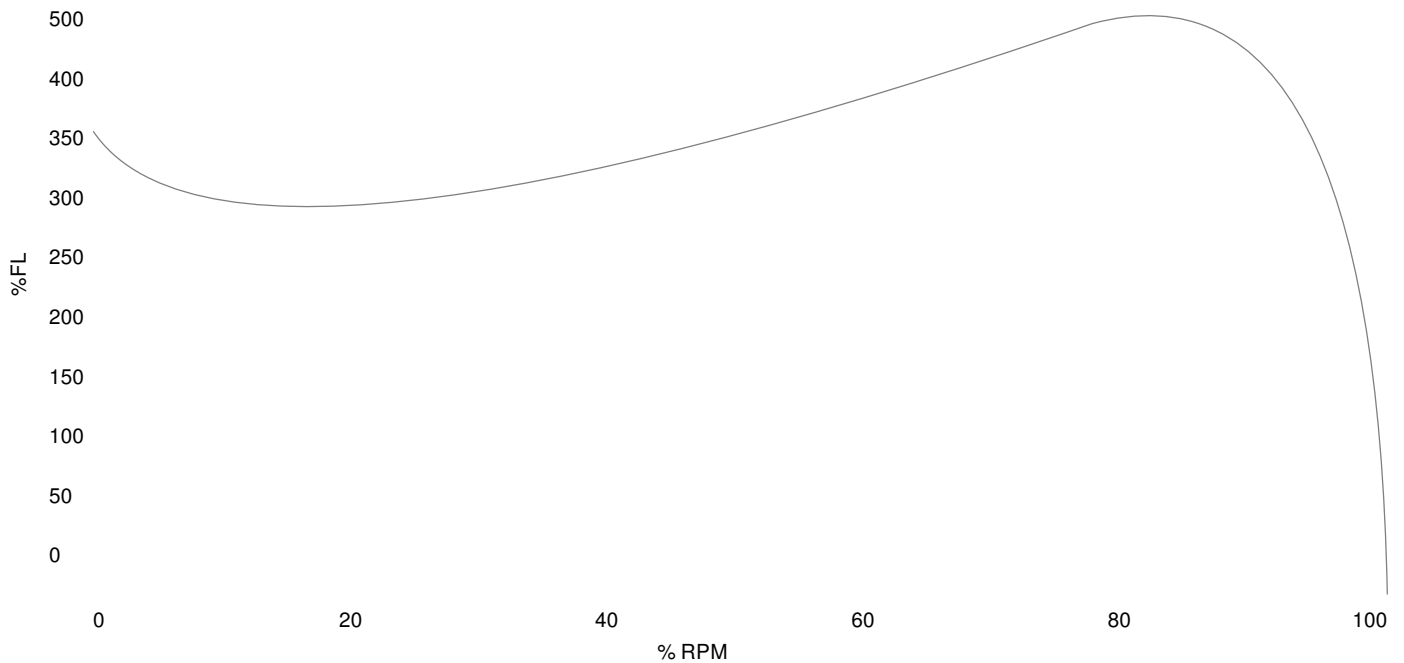
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Premium NEMA Cast Iron, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |   |
|---------------------|--------------|-------|----------------------|---|
| Locked Rotor Torque | 105.645      | 358.0 | Start Configuration  | - |
| Pull-Up Torque      | 61.6756      | 209.0 | Starting Current (A) | - |
| Breakdown Torque    | 130.138      | 441.0 | No-Load Current (A)  | - |
| Full Load           | 29.5099      | 100.0 | No-Load Power Factor | - |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 10.57         | -                      | -          | -          | -    |
| 25     | 5.0        | 11.94         | 4.64                   | 3592.4     | 80.73      | 0.49 |
| 50     | 10.0       | 15.25         | 8.5                    | 3585.0     | 88.28      | 0.7  |
| 75     | 15.0       | 19.36         | 12.42                  | 3577.3     | 90.59      | 0.8  |
| 100    | 20.0       | 24.09         | 16.42                  | 3569.1     | 91.36      | 0.86 |
| 125    | 25.0       | 29.22         | 20.5                   | 3560.6     | 91.45      | 0.88 |

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