



NEMA Premium

**NEMA**

|                      |                          |
|----------------------|--------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-145T-4-B-F-1.5 |
| <b>FACTORY TYPE:</b> | TXC                      |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                          |              |       |
|--|--------------|-------|
|  | 60 Hz        | 50 Hz |
| Horsepower                               | 1.5          | 1.5   |
| Speed, RPM                               | 1715         | -     |
| Voltage                                  | 575          | -     |
| # Phase                                  | 3            |       |
| Full Load Amps                           | 1.731905708  | -     |
| Power Factor                             | 0.74         | -     |
| Nominal Efficiency                       | 86.5         | -     |
| 3/4 Load Efficiency                      | -            | -     |
| Service Factor                           | 1.25         | 1.0   |
| KVA Code                                 | L            | -     |
| FL Amps. @ 208 V                         | -            | -     |
| Locked Rotor Current                     | -            | -     |
| Start Capacitor                          | -            |       |
| Start Capacitor V                        | -            |       |
| Run Capacitor                            | -            |       |
| Run Capacitor V                          | -            |       |
| Number of Leads                          | 3            |       |
| Connection                               | Y            |       |
| Coil Resistance                          | -            |       |
| Date Code                                | -            |       |
|  |              |       |
| Load                                     | Efficiency % | P.F.  |
| 50%                                      | 84.56        | 0.53  |
| 75%                                      | 86.79        | 0.67  |
| 100%                                     | 87.1         | 0.75  |
|  |              |       |
| FULL LOAD TEMPERATURE RISE               |              |       |
| FL Temp Rise °C                          | -            | -     |
|  |              |       |
| 3D Image Link                            |              |       |
| <a href="#">GR3-CI-TF-145T-4-B-F-1.5</a> |              |       |

| GENERAL DATA                               |               |       |
|--|---------------|-------|
| Frame Size                                 | 145T          |       |
| 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 3/4"    |       |
| Feet Removable                             | true          |       |
| Double Drilled                             | -             |       |
| Paint Color                                | Graphite Gray |       |
| Paint RAL                                  | 7024          |       |
| Weight lb                                  | 54.0225       |       |
|  |               |       |
| MECHANICAL DATA                            |               |       |
| DE Bearing                                 | 6205ZZ        |       |
| NDE Bearing                                | 6205ZZ        |       |
| dB No-Load                                 | -             |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |
| Comp Ring (wavy washer)                    | NDE           |       |
|  |               |       |
| TORQUE VALUES                              |               | % FLT |
| Locked Rotor Torque                        | 16.1544       | 351.0 |
| Pull-Up Torque                             | 14.8197       | 322.0 |
| Breakdown Torque                           | 18.9158       | 411.0 |
| Full Load Torque                           | 4.60239       | 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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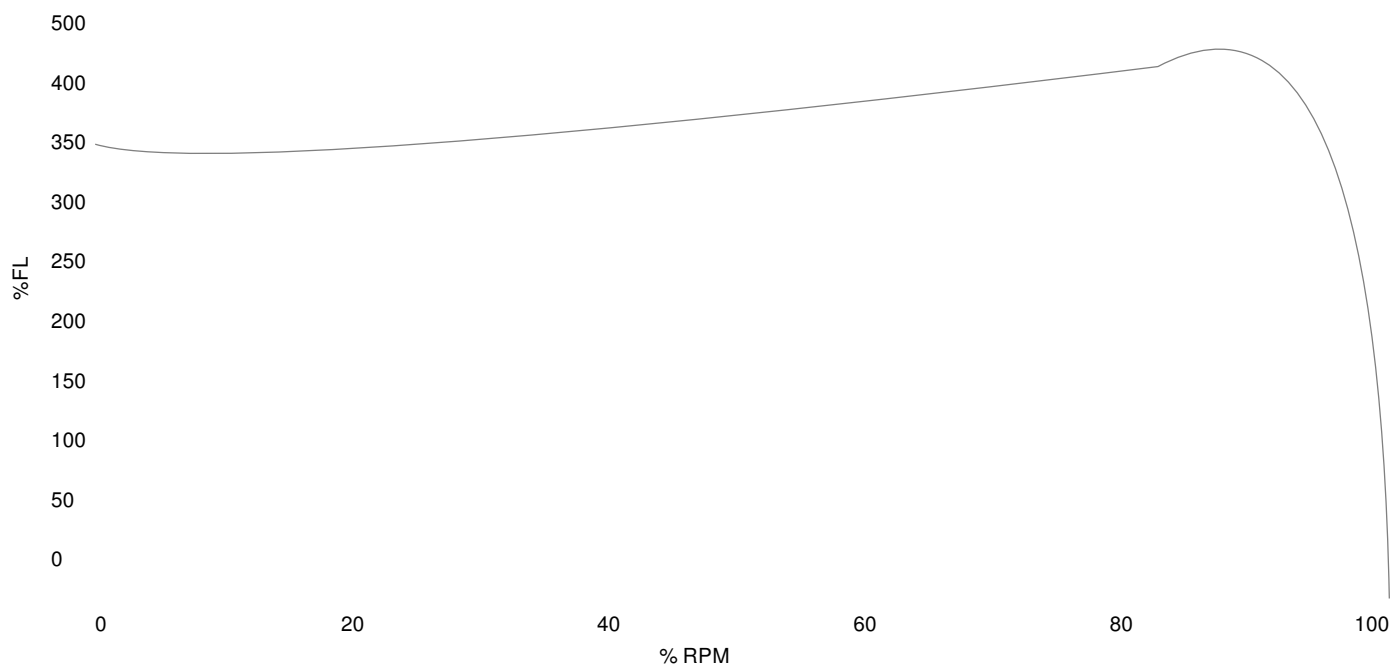
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Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 1.5HP, 1715 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 16.1544      | 351.0 | Start Configuration  |
| Pull-Up Torque      | 14.8197      | 322.0 | Starting Current (A) |
| Breakdown Torque    | 18.9158      | 411.0 | No-Load Current (A)  |
| Full Load           | 4.60239      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 1.34          | -                      | -          | -          | -    |
| 25     | 0.375      | 1.4           | 368.98                 | 1787.5     | 76.22      | 0.33 |
| 50     | 0.75       | 1.57          | 665.18                 | 1775.8     | 84.56      | 0.53 |
| 75     | 1.125      | 1.83          | 972.14                 | 1763.0     | 86.79      | 0.67 |
| 100    | 1.5        | 2.16          | 1291.7                 | 1749.1     | 87.1       | 0.75 |
| 125    | 1.875      | 2.54          | 1625.7                 | 1734.1     | 86.5       | 0.8  |

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