



NEMA Premium

**NEMA**

|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-445T-4-BR-E-150 |
| <b>FACTORY TYPE:</b> | TXC                       |

Premium NEMA Cast Iron, TEFC

| ELECTRICAL DATA                           |              |       |
|---|--------------|-------|
|   | 60 Hz        | 50 Hz |
| Horsepower                                | 150.0        | 150.0 |
| Speed, RPM                                | 1780         | 1480  |
| Voltage                                   | 460          | 380   |
| # Phase                                   | 3            |       |
| Full Load Amps                            | 166.595569   | 200   |
| Power Factor                              | 0.88         | -     |
| Nominal Efficiency                        | 95.8         | 94.3  |
| 3/4 Load Efficiency                       | -            | -     |
| Service Factor                            | 1.15         | 1.0   |
| KVA Code                                  | H            | D     |
| FL Amps. @ 208 V                          | -            | -     |
| Locked Rotor Current                      | 1941.71      | -     |
| Start Capacitor                           | -            |       |
| Start Capacitor V                         | -            |       |
| Run Capacitor                             | -            |       |
| Run Capacitor V                           | -            |       |
| Number of Leads                           | 6            |       |
| Connection                                | D            |       |
| Coil Resistance                           | -            |       |
| Date Code                                 | -            |       |
|   |              |       |
| Load                                      | Efficiency % | P.F.  |
| 50%                                       | 94.76        | 0.77  |
| 75%                                       | 95.48        | 0.85  |
| 100%                                      | 95.52        | 0.88  |
|   |              |       |
| FULL LOAD TEMPERATURE RISE                |              |       |
| FL Temp Rise °C                           | 60.0         | -     |
|   |              |       |
| 3D Image Link                             |              |       |
| <a href="#">GR3-CI-TF-445T-4-BR-E-150</a> |              |       |

| GENERAL DATA                               |               |       |              |       |
|--|---------------|-------|--------------|-------|
| Frame Size                                 | 445T          |       |              |       |
| 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"      |       |              |       |
| Feet Removable                             | -             |       |              |       |
| Double Drilled                             | true          |       |              |       |
| Paint Color                                | Graphite Gray |       |              |       |
| Paint RAL                                  | 7024          |       |              |       |
| Weight lb                                  | 1631.7        |       |              |       |
|  |               |       |              |       |
| MECHANICAL DATA                            |               |       |              |       |
| DE Bearing                                 | 6319C3        |       |              |       |
| NDE Bearing                                | 6319C3        |       |              |       |
| dB No-Load                                 | -             |       |              |       |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -             |       |              |       |
| Comp Ring (wavy washer)                    | DE            |       |              |       |
|  |               |       |              |       |
| TORQUE VALUES                              |               |       | Torque lb-ft | % FLT |
| Locked Rotor Torque                        | 1962.2        | 455.0 |              |       |
| Pull-Up Torque                             | 983.256       | 228.0 |              |       |
| Breakdown Torque                           | 2005.32       | 465.0 |              |       |
| Full Load Torque                           | 431.253       | 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 Techtop for more info.



NEMA Premium

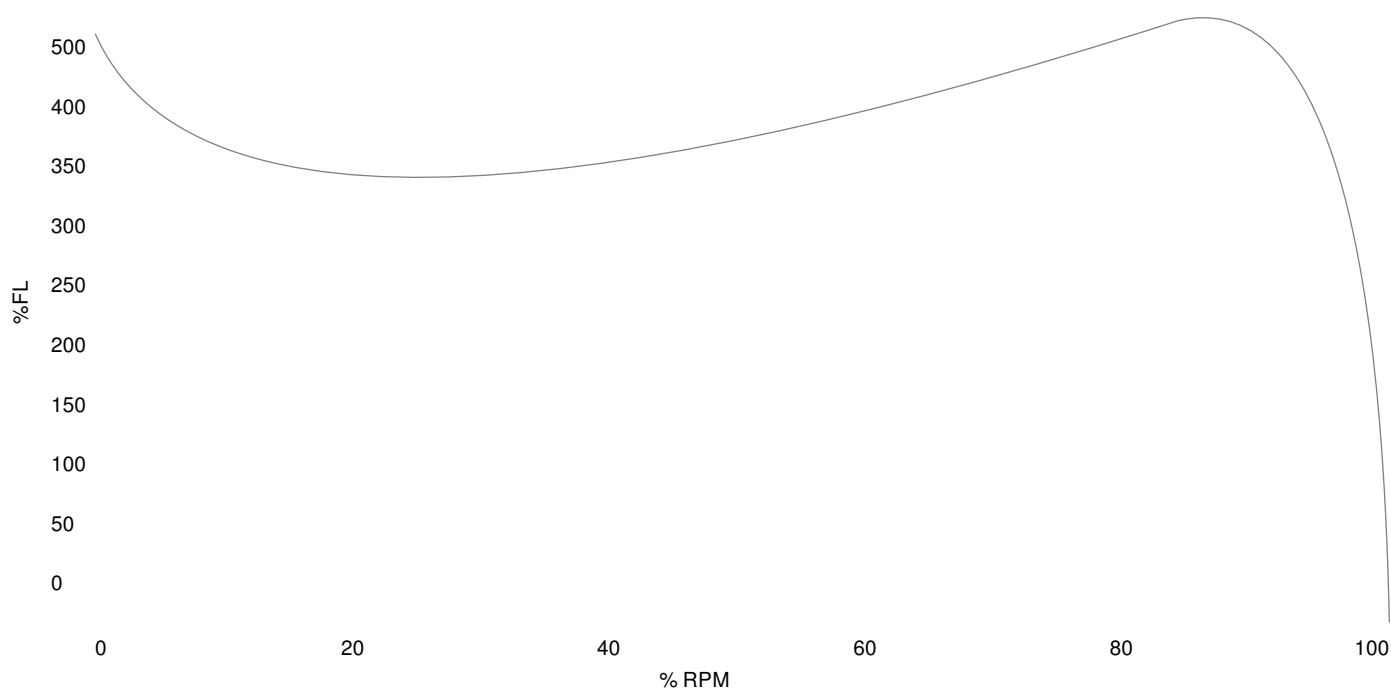
|                      |                           |
|----------------------|---------------------------|
| <b>MOTOR MODEL:</b>  | GR3-CI-TF-445T-4-BR-E-150 |
| <b>FACTORY TYPE:</b> | TXC                       |

**NEMA**

Premium NEMA Cast Iron, TEFC

Non Sinusoidal (VFD) Output 150.0HP, 1780 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 1962.2       | 455.0 | Start Configuration  |
| Pull-Up Torque      | 983.256      | 228.0 | Starting Current (A) |
| Breakdown Torque    | 2005.32      | 465.0 | No-Load Current (A)  |
| Full Load           | 431.253      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 65.07         | -                      | -          | -          | -    |
| 25     | 37.5       | 78.63         | 34.53                  | 1797.4     | 91.59      | 0.55 |
| 50     | 75.0       | 109.21        | 66.75                  | 1794.9     | 94.76      | 0.77 |
| 75     | 112.5      | 146.37        | 99.37                  | 1792.3     | 95.48      | 0.85 |
| 100    | 150.0      | 187.92        | 132.44                 | 1789.6     | 95.52      | 0.88 |
| 125    | 187.5      | 214.06        | 152.51                 | 1787.9     | 95.39      | 0.89 |

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