



NEMA Premium

**NEMA**

|                      |                         |
|----------------------|-------------------------|
| <b>MOTOR MODEL:</b>  | WX3-AL-TF-145TC-2-B-D-2 |
| <b>FACTORY TYPE:</b> | TXA                     |

Premium NEMA Cast Aluminum, TEFC

| ELECTRICAL DATA              |              |           |
|------------------------------|--------------|-----------|
|                              | 60 Hz        | 50 Hz     |
| Horsepower                   | 2.0          | 2.0       |
| Speed, RPM                   | 3500         | 2880      |
| Voltage                      | 230/460      | 190/380   |
| # Phase                      | 3            |           |
| Full Load Amps               | 5.18/2.59    | 6.16/3.08 |
| Power Factor                 | 0.85         | -         |
| Nominal Efficiency           | 85.5         | 83.8      |
| 3/4 Load Efficiency          | -            | -         |
| Service Factor               | 1.25         | 1.0       |
| KVA Code                     | L            | H         |
| FL Amps. @ 208 V             | 5.58         | -         |
| LRC @ 60Hz HV                | 23.2974      | -         |
| Start Capacitor              | -            |           |
| Start Capacitor V            | -            |           |
| Run Capacitor                | -            |           |
| Run Capacitor V              | -            |           |
| Number of Leads              | 9            |           |
| Connection                   | YY/Y         |           |
| Coil Resistance              | -            |           |
| Date Code                    | -            |           |
|                              |              |           |
| Load                         | Efficiency % | P.F.      |
| 50%                          | 84.53        | 0.67      |
| 75%                          | 86.37        | 0.79      |
| 100%                         | 86.27        | 0.85      |
|                              |              |           |
| FULL LOAD TEMPERATURE RISE   |              |           |
| FL Temp Rise °C              | 39.7         | 39.0      |
|                              |              |           |
| 3D Image Link                |              |           |
| Not available for this motor |              |           |

| GENERAL DATA                               |                |       |
|--|----------------|-------|
| Frame Size                                 | 145TC          |       |
| Frame Enclosure                            | TEFC           |       |
| Mounting                                   | Rigid/C-Flange |       |
| Insulation Class                           | F              |       |
| Duty                                       | Cont. / S1     |       |
| NEMA Design                                | B              |       |
| Frame Material                             | Cast Aluminum  |       |
| Ingress Protection                         | 56             |       |
| Tropicalization                            | true           |       |
| Cable Entry                                | 1-NPT 3/4"     |       |
| Feet Removable                             | true           |       |
| Double Drilled                             | -              |       |
| Paint Color                                | -              |       |
| Paint RAL                                  | -              |       |
| Weight lb                                  | 29.5           |       |
|  |                |       |
| 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)                    | -              |       |
|  |                |       |
| TORQUE VALUES                              |                | % FLT |
| Locked Rotor Torque                        | 8.91226        | 294.0 |
| Pull-Up Torque                             | 6.12339        | 202.0 |
| Breakdown Torque                           | 10.0642        | 332.0 |
| Full Load Torque                           | 3.03138        | 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.

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



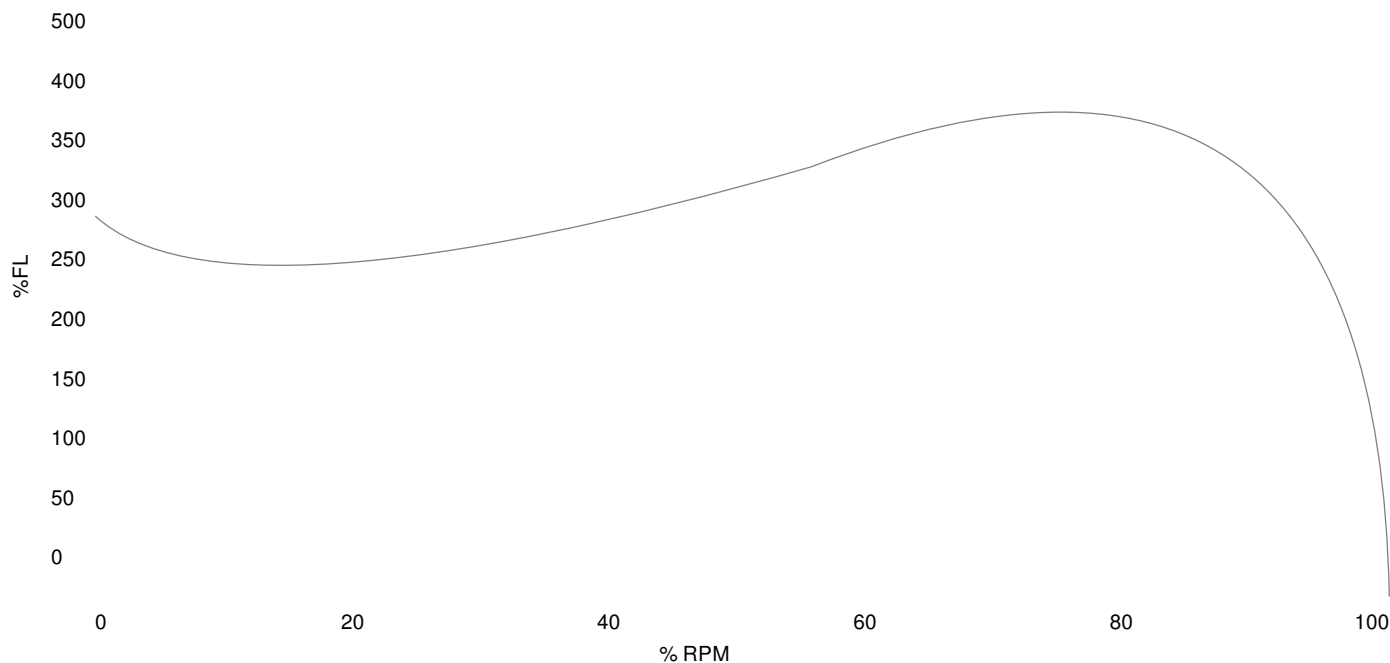
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Premium NEMA Cast Aluminum, TEFC

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 8.91226      | 294.0 | Start Configuration  |
| Pull-Up Torque      | 6.12339      | 202.0 | Starting Current (A) |
| Breakdown Torque    | 10.0642      | 332.0 | No-Load Current (A)  |
| Full Load           | 3.03138      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF   |
|--------|------------|---------------|------------------------|------------|------------|------|
| 0      | -          | 1.29          | -                      | -          | -          | -    |
| 25     | 0.5        | 1.37          | 489.13                 | 3575.5     | 76.67      | 0.45 |
| 50     | 1.0        | 1.67          | 887.26                 | 3554.1     | 84.53      | 0.67 |
| 75     | 1.5        | 2.08          | 1302.5                 | 3529.7     | 86.37      | 0.79 |
| 100    | 2.0        | 2.58          | 1738.8                 | 3502.4     | 86.27      | 0.85 |
| 125    | 2.5        | 3.14          | 2199.9                 | 3472.1     | 85.23      | 0.88 |

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