



IE3

IEC

|                      |                        |
|----------------------|------------------------|
| <b>MOTOR MODEL:</b>  | GR3-AL-TF-80B3-2-B-D-1 |
| <b>FACTORY TYPE:</b> | TXA                    |

## IE3 IEC Cast Aluminum, TEFC

| ELECTRICAL DATA                        |                     |             |
|--|---------------------|-------------|
|  | 60 Hz               | 50 Hz       |
| Horsepower                             | 1.0                 | 1.0         |
| Speed, RPM                             | 3490                | 2850        |
| Voltage                                | 208-230/460         | 190/380     |
| # Phase                                | 3                   |             |
| Full Load Amps                         | 3.1-3.1/1.55        | 3.48/1.74   |
| Power Factor                           | 0.77                | -           |
| Nominal Efficiency                     | 79.0                | 77.0        |
| 3/4 Load Efficiency                    | -                   | -           |
| Service Factor                         | 1.25                | 1.0         |
| KVA Code                               | K                   | G           |
| FL Amps. @ 208 V                       | 3.1                 | -           |
| Locked Rotor Current                   | 11.3832             | -           |
| Start Capacitor                        | -                   |             |
| Start Capacitor V                      | -                   |             |
| Run Capacitor                          | -                   |             |
| Run Capacitor V                        | -                   |             |
| Number of Leads                        | 9                   |             |
| Connection                             | YY/Y                |             |
| Coil Resistance                        | -                   |             |
|  |                     |             |
| <b>Load</b>                            | <b>Efficiency %</b> | <b>P.F.</b> |
| 50%                                    | -                   | -           |
| 75%                                    | -                   | -           |
| 100%                                   | -                   | -           |
|  |                     |             |
| FULL LOAD TEMPERATURE RISE             |                     |             |
| FL Temp Rise °C                        | 53.4                | -           |
|  |                     |             |
| 3D Image Link                          |                     |             |
| <a href="#">GR3-AL-TF-80B3-2-B-D-1</a> |                     |             |

| GENERAL DATA                               |                     |              |
|--|---------------------|--------------|
| Frame Size                                 | 80                  |              |
| Frame Enclosure                            | TEFC                |              |
| Mounting                                   | B3                  |              |
| Insulation Class                           | F                   |              |
| Duty                                       | Cont. / S1          |              |
| NEMA Design                                | B                   |              |
| Frame Material                             | Cast Aluminum       |              |
| Ingress Protection                         | 55                  |              |
| Tropicalization                            | true                |              |
| Cable Entry                                | 1-NPT 1/2"          |              |
| Feet Removable                             | true                |              |
| Double Drilled                             | -                   |              |
| Paint Color                                | Graphite Gray       |              |
| Paint RAL                                  | 7024                |              |
| Weight lb                                  | 18.2                |              |
|  |                     |              |
| MECHANICAL DATA                            |                     |              |
| DE Bearing                                 | 6204ZZ              |              |
| NDE Bearing                                | 6204ZZ              |              |
| dB No-Load                                 | -                   |              |
| Rotor Wk <sup>2</sup> , Lb-Ft <sup>2</sup> | -                   |              |
| Comp Ring (wavy washer)                    | NDE                 |              |
|  |                     |              |
| TORQUE VALUES                              |                     |              |
|  | <b>Torque lb-ft</b> | <b>% FLT</b> |
| Locked Rotor Torque                        | 4.73294             | 310.0        |
| Pull-Up Torque                             | 3.31306             | 217.0        |
| Breakdown Torque                           | 4.82454             | 316.0        |
| Full Load Torque                           | 1.52675             | 100.0        |
|  |                     |              |
| SITE CONDITIONS                            |                     |              |
| Ambient Temp °C                            | 40                  |              |
| Altitude Above Sea Level m                 | 1000                |              |



IE3

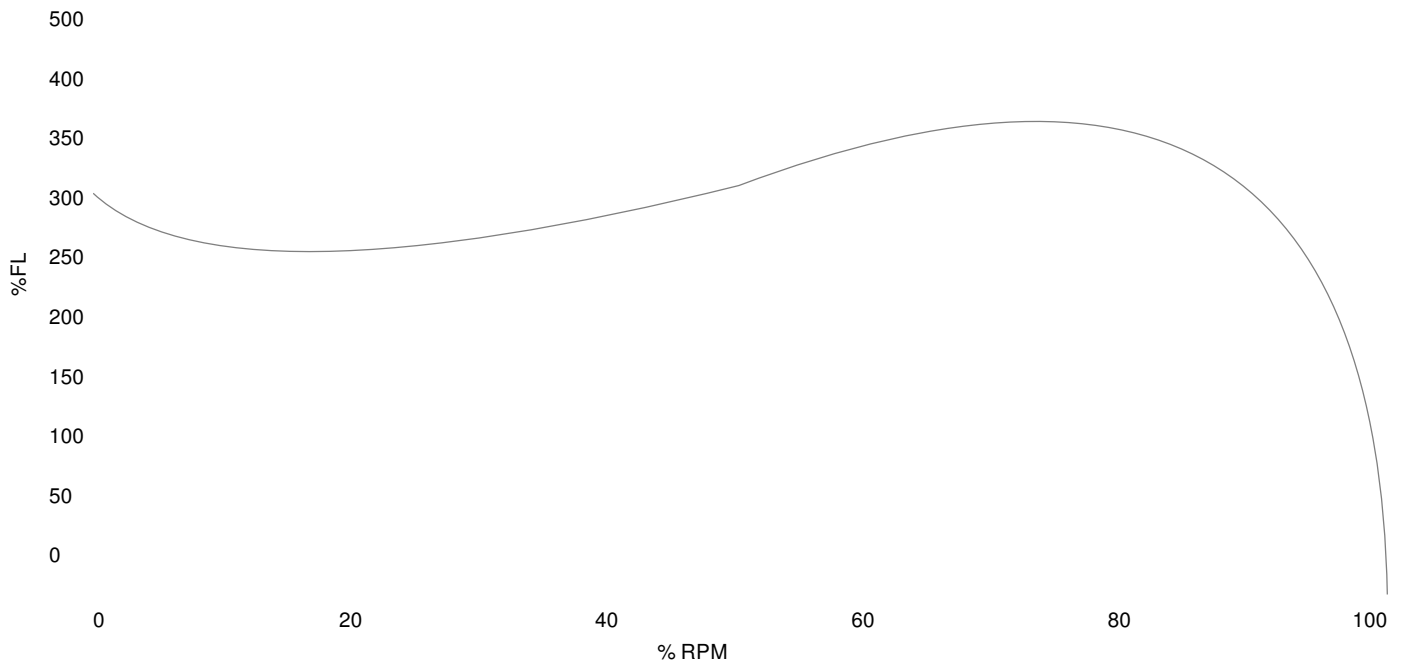
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## IE3 IEC Cast Aluminum, TEFC

Non Sinusoidal (VFD) Output 1.0HP, 3490 RPM

Torque Speed (T-n) Curve



Performance Load Values, High Voltage, 60Hz

| Torque Values       | Torque lb-ft | % FLT | Performance Values   |
|---------------------|--------------|-------|----------------------|
| Locked Rotor Torque | 4.73294      | 310.0 | Start Configuration  |
| Pull-Up Torque      | 3.31306      | 217.0 | Starting Current (A) |
| Breakdown Torque    | 4.82454      | 316.0 | No-Load Current (A)  |
| Full Load           | 1.52675      | 100.0 | No-Load Power Factor |

| % Load | Horsepower | Current, Amps | Input power, Kilowatts | Speed, RPM | Efficiency | PF |
|--------|------------|---------------|------------------------|------------|------------|----|
| 0      | -          | 1.11          | -                      | -          | -          | -  |
| 25     | 0.25       | -             | -                      | -          | -          | -  |
| 50     | 0.5        | -             | -                      | -          | -          | -  |
| 75     | 0.75       | -             | -                      | -          | -          | -  |
| 100    | 1.0        | -             | -                      | -          | -          | -  |
| 125    | 1.25       | -             | -                      | -          | -          | -  |

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