



|                      |                            |
|----------------------|----------------------------|
| <b>Model Number:</b> | GR3-AL-TF-100LB3-2-B-D-5.5 |
| <b>MFG PN:</b>       | 830                        |
| <b>List Price:</b>   |                            |


All data shown at HIGH voltage setting

Format: STD 3 Phase

| Electrical Data               |             |               |   | General Data                 |               |        |  |
|-------------------------------|-------------|---------------|---|------------------------------|---------------|--------|--|
| Rated Motor Output Power      | 5.5         | HP            |   | Frame Size                   | 100L          |        |  |
| Rated Motor Speed             | 3510        | r/min 60Hz    |   | Enclosure                    | TEFC          |        |  |
|                               | 2900        | r/min 50Hz    |   | Mounting                     | B3            |        |  |
| Rated Motor Voltage (3 Phase) | 230/460     | V/60Hz        |   | NEMA Design                  | -             |        |  |
|                               | 190/380     | V/50Hz        |   | IP Rating                    | 55            |        |  |
| Rated Motor Current           | 12.7/6.35   | A (In) @ 60Hz |   | Insulation Class             | F             |        |  |
|                               | 15.4/7.70   | A (In) @ 50Hz |   | Tropicalization              | 1             |        |  |
| FL Current @ 208V             | None        | A (In) @ 60Hz |   | Duty                         | Cont. / S1    |        |  |
| Service Factor                | 1.15        | @ 60Hz        |   | Cable Entry                  | 1-M20X1.5     |        |  |
|                               | 1.15        | @ 50Hz        |   | Feet Removable               | 1             |        |  |
| KVA Code                      | L           | 60Hz          |   | Double Drilled               | 0             |        |  |
|                               | J           | 50Hz          |   | Frame Material               | Cast Aluminum |        |  |
| Nominal Efficiency            | 88.5        | % @ 60Hz      |   | Shaft Material               | 1045          |        |  |
|                               | 81.0        | % @ 50Hz      |   | Coating                      | RAL           | 7024   |  |
| Nominal Power Factor          | 0.89        | cosθ @ 60Hz   |   |                              |               |        |  |
| Full Load Torque Ft-Lb        | S           |               |   | Mechanical Data              |               |        |  |
| Load Data                     | Trq Ft-Lb   | Trq %FL       | Current Amps  | Bearing DE Side              | 6206ZZ        |        |  |
| Locked Rotor                  |             |               |   | Bearing NDE Side             | 6206ZZ        |        |  |
| Breakdown                     | 12.8217804  | 424.0         | -   | Comp Ring (wavey washer)     | NDE           |        |  |
| Pull Up                       | 8.920814196 | 295.0         | -   | Weight                       | 56.0          | Lbs    |  |
| Load Data                     | RPM         | Eff %         | Current Amps  | Moment of Inertia            | None          | kg.m3  |  |
| 125% of FL                    | 3450.7      | 78.656        | 1.7765  | Site Conditions              |               |        |  |
| 75% of FL                     | 3518.9      | 77.878        | 1.3165  | Temp Rise @ Full Load °C     | B             | @ 60Hz |  |
| 50% of FL                     | 3546.6      | 73.452        | 1.176   | Ambient Temperature °C       | 40            |        |  |
| No Load                       | 1199.0      | 0             | 1.3   | Altitude Above Sea Level (M) | 1000          |        |  |
| Brake Torque (N-M)            | 100.0       |               | Loaded Torque Curves  |                              | None          |        |  |
| Brake Coil Voltage            | None        |               | P1 = Output Power (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosφ = Power Factor |                              |               |        |  |

|                        |                             |  |
|------------------------|-----------------------------|--|
| <b>CT VFD Range</b>    |                             |  |
| Haz Loc Rating         |                             |  |
| Options:               |                             |  |
| <b>UL File Number</b>  |                             |  |
| <b>CSA File Number</b> |                             |  |
| <b>DOE File Number</b> |                             |  |
| <b>CE APPROVAL</b>     |                             |  |
| <b>Wiring Diagram</b>  | <b>IEC-3-9-YY-Y-100-132</b> |  |

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Dimensional Drawing (For Reference Only)

T100 B3

| Components               |       |             |            |
|--------------------------|-------|-------------|------------|
| Item                     | Model | Description | List Price |
| C-Face Kit               |       |             |            |
| D-Flange Kit             |       |             |            |
| DE Endplate Kit          |       |             |            |
| NDE Endplate Kit         |       |             |            |
| Junction Box             |       |             |            |
| Cooling Fan Cover        |       |             |            |
| Cooling Fan              |       |             |            |
| Replacement Feet         |       |             |            |
| DE Bearing Retainer Kit  |       |             |            |
| NDE Bearing Retainer Kit |       |             |            |

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