



**Model Number** GR3-CI-TF-143TC-2-B-D-1-230|460-60

**MFG PN** T143T1U2B

**List Price** --

All data shown at HIGH voltage setting

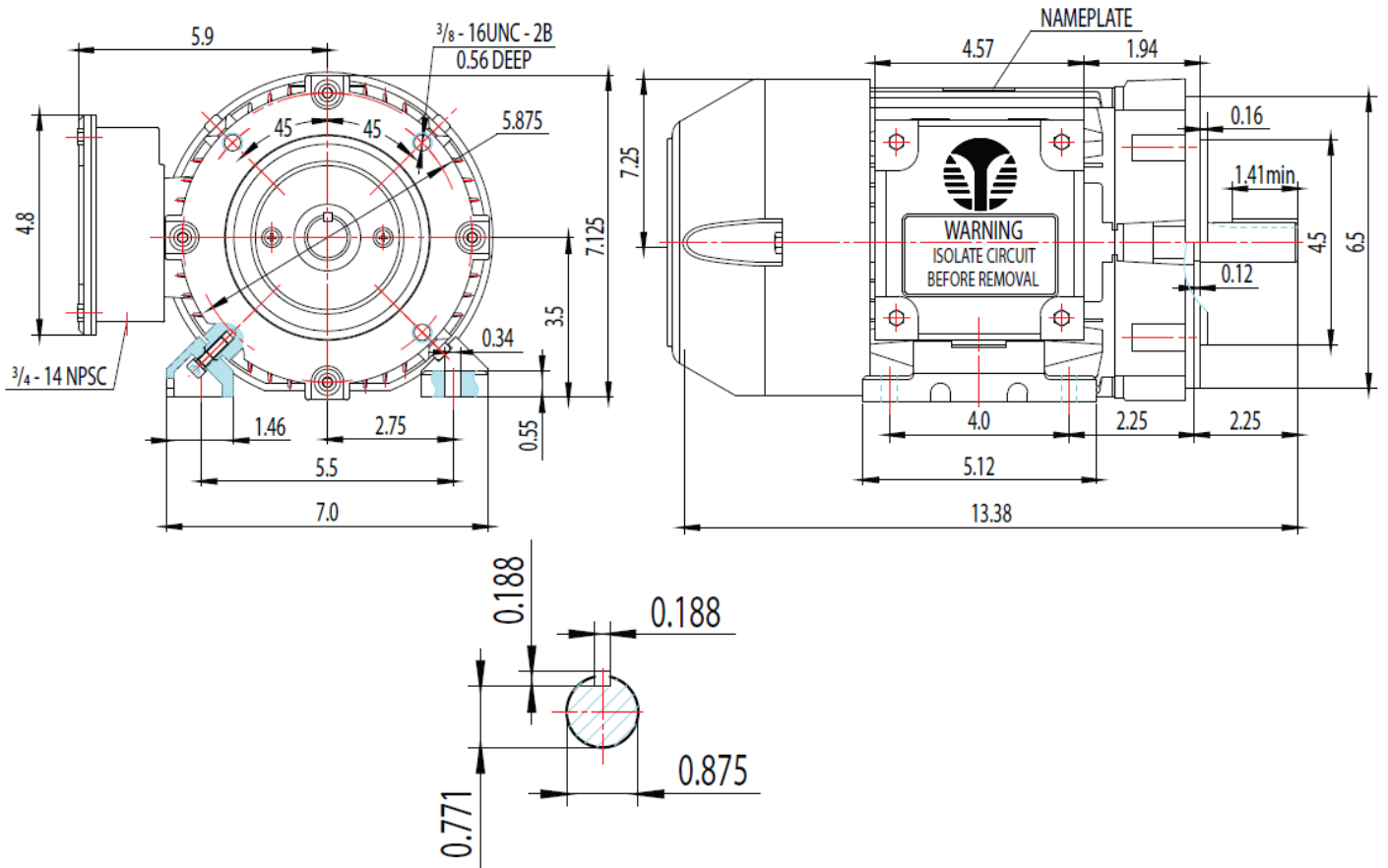
Format | STD 3 Phase

| Electrical Data  |                             |         |              | General Data   |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
|--|-----------------------------|---------|--------------|--|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|--|--|--------------|
| Rated Motor Output Power   | 1 HP                        |         |              | Frame Size   | 143                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Rated Motor Speed  | 3500 r/min                  |         |              | Enclosure  | TEFC                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Rated Motor Voltage (3 Phase)  | 230 460-60 Volts - HZ       |         |              | Approximate Weight   | 41.1                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Rated Motor Current  | 3/1.5 Amps                  |         |              | NEMA Design  | B                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Service Factor   | 1.25                        |         |              | IP Rating  | 55                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| KVA Code   | K                           |         |              | Insulation Class   | F                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Nominal Efficiency   | 77 %                        |         |              | Tropicalization  | YES                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Nominal Power Factor   | 0.83 cosθ                   |         |              | Duty   | Cont                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Full Load Torque Ft-Lb   | 1.51208 Ft-Lb               |         |              | Cable Entry  | 1.25                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Temp Rise @ Full Load °C   | 41.1                        |         |              | Feet Removable   | YES                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Efficiency Level   | IE3 - NEMA Premium          |         |              | Double Drilled   | NO                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Load Data  | RPM                         | Trq %FL | Current Amps | Rated Ambient (°C)   | 40                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Locked Rotor   | -                           | 241     | 10.94        | Rated Altitude (M)   | 1000                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Breakdown  | -                           | 326     | -            | Coating  | 7024 - Graphite Grey |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Pull Up  | -                           | 168     | -            | Shaft Grounding  | NO                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| 125% of FL   | 3475                        | -       | 1.72         | Brake Voltage (DC)   | --                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| 75% of FL  | 3530                        | -       | 1.22         | Brake Torque (N-M)   | --                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| 50% of FL  | 3554                        | -       | 1.04         | Mechanical Data  |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| No Load  | 3571                        | -       | 0.88         | Bearing DE Side  | 6205ZZ               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Hazardous Location   | Class 1, Div 2, Grp A,B,C,D |         |              | Bearing NDE Side   | 6205ZZ               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
|  |                             |         |              | Moment of Inertia  | -- kg.m2             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
|  |                             |         |              | Noise Level  | Per NEMA dB (A)      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| CT VFD Range   |                             | --      |              | Loaded Torque Curves   |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
|  |                             |         |              | P1 = INPUT POWER (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosφ = Power Factor |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Certifications   | UL                          | CSA     | DOE          |  |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| File Numbers   | 323353                      | 224693  | 096A         |  |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| Wiring Diagram   | 3PH 9 Lead Dual Voltage     |         |              |  |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| <p><b>3 Phase - YY/Y - 9 Lead</b><br/>           4,1 Blue / 5,2 White / 6,3 Org / 7 Yl / 8 Blk / 9 RD<br/>           Cast Iron- 1,2,3 Top - 4,5,6,7,8,9 Bottom<br/>           Aluminum - 4,5,6,8,9 Top - 1,2,3,7 Bottom</p> <p><b>CONNECTIONS</b></p> <table border="1"> <tr> <td>4</td><td>5</td><td>6</td> <td>4</td><td>5</td><td>6</td> </tr> <tr> <td>7</td><td>8</td><td>9</td> <td>7</td><td>8</td><td>9</td> </tr> <tr> <td>1</td><td>2</td><td>3</td> <td>1</td><td>2</td><td>3</td> </tr> <tr> <td colspan="3">LOW VOLTAGE</td> <td colspan="3">HIGH VOLTAGE</td> </tr> </table> |                             |         |              |  |                      | 4 | 5 | 6 | 4 | 5 | 6 | 7 | 8 | 9 | 7 | 8 | 9 | 1 | 2 | 3 | 1 | 2 | 3 | LOW VOLTAGE |  |  | HIGH VOLTAGE |
| 4  | 5                           | 6       | 4            | 5  | 6                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| 7  | 8                           | 9       | 7            | 8  | 9                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| 1  | 2                           | 3       | 1            | 2  | 3                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |
| LOW VOLTAGE  |                             |         | HIGH VOLTAGE |  |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |  |  |              |



|              |                                    |
|--------------|------------------------------------|
| Model Number | GR3-CI-TF-143TC-2-B-D-1-230 460-60 |
| MFG PN       | T143T1U2B                          |
| List Price   | --                                 |
| Base Frame   | GR-143TC-CI-TF                     |

FRAME: 143TC | HP: | RPM: | PHASE: 3 | VOLT: 208 - 230/460V | ENCL: TEFC | FREQ: 60 Hz | FLA: | LRA:



|                  |               |                 |      |     |       |          |
|------------------|---------------|-----------------|------|-----|-------|----------|
|                  | MODEL NUMBER: | GR3-CI-TF-143TC | REV: | BY: | DATE: | CHANGES: |
|                  | MFG PN:       |                 | 1    |     |       |          |
|                  |               |                 | 2    |     |       |          |
|                  |               |                 | 3    |     |       |          |
|                  |               |                 | 4    |     |       |          |
|                  |               |                 | 5    |     |       |          |
|                  |               |                 | 6    |     |       |          |
| MATERIAL:        |               |                 | 7    |     |       |          |
| UNITS: INCH      | BY: SSEE      |                 |      |     |       |          |
| DRAWN: 6/15/2018 |               |                 |      |     |       |          |
| WWW.TECHTOP.COM  |               |                 |      |     |       |          |

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