



The Frequency Converter People Since 1950

**GEORATOR Corporation**

9617 Center Street  
Manassas, VA 20110

800 523-9938

703 368-2101

Fax: 703 368-1078

E-Mail: sales@georator.com

| <b>Triathlon III Frequency Converter Specifications - 3 Phase Input to 3 Phase Output Model, 160 KVA</b> |  |   |
|--|--|---|
| <b>Model</b>   | <b>T3FC-33-160K</b>                        |   |
| <b>Capacity</b>  | 160 KVA                                    |   |
| <b>Input</b>   | Voltage<br>(select one individual voltage) | 3 Phase Delta 220/380/460 ± 20%<br>3 Phase Wye 190/200/208/220/230/240V ± 20%<br>3 Phase Wye 380/400/415/440/460/480V ± 20%                   |
|  | Frequency                                  | 47 - 63 Hz (400 Hz. Optional)   |
|  | Power Walk In                              | 0-100%: 20 seconds  |
| <b>Output</b>  | Voltage<br>(select one individual voltage) | 3 Phase Delta 220/380/460V<br>3 Phase Wye 190/200/208/220/230/240V<br>3 Phase Wye 380/400/415/440/460/480V<br>(± 15% adjustable from nominal) |
|  | Voltage Regulation                         | ± 1% at Linear Load   |
|  | Phase Shift (unbal. load)                  | < 0.5 Deg.  |
|  | Frequency (select one)                     | 50 or 60Hz ± 0.1Hz<br>(Optional: 400Hz.)<br>(Optional: Switch Selectable 50/60Hz.)<br>(Optional: Frequency Adjustable ±10% from nominal)      |
|  | Power Factor                               | 0.8   |
|  | Distortion (THD)                           | < 2.0% (Linear Load)  |
|  | Crest Factor                               | 3:1   |
|  | Overload Capacity                          | 125% for 15 Minutes, 150% for 10 Minutes, > 150% for 1 minute   |
|  | Efficiency                                 | ≥ 94%   |
| <b>Indicators</b>  | LCD  | Real Time Status, Data or Historical Events, Parameters, Real Time Clock, Inverter & Alarm  |
|  | LED  | Up to date information (Status) to the User & Audible Alarm   |
| <b>Protection</b>  | Over/Under Voltage                         | Alarm   |
|  | Output Short Circuit                       | Current Limited and cut-off, fuse and breaker   |
|  | Overload                                   | Auto-shutdown 1 min. later  |
|  | Over Temperature                           | Auto-shutdown   |
|  | Lightning / EMC Filter                     | MOV / Input & Output (FCC CLASS A)  |
|  | EMI/EMC                                    | EN50091-1, -2 Approved  |
|  | Galvanic Isolation                         | Input & Output True Galvanic Isolation  |
| <b>Interface</b>   | Contact Closure, RS-232/485                | Supports Remote Control Module, Optional SNMP card (Model No. MEGATEC Net Agent II)   |
| <b>Environment</b>   | Operating Temperature                      | 0° – 40° C  |
|  | Humidity                                   | 0 - 90% Non-condensing  |
|  | Audible Noise                              | < 67 dB at 1 meter  |
| <b>Dimensions</b>  | W x H x D (mm)                             | 1,100*1,600*800   |
|  | W x H x D (in)                             | 43.3*63.0*31.5  |
| <b>Weight</b>  | Kilograms                                  | 1,620.0   |
|  | Pounds                                     | 3,571.5   |

\* Weights based on 220/380V IN and OUT. Weights may vary based on input/output frequency/voltage