

### Model FC5003-C1-115-400

## Three-phase 60 Hz to 400 Hz Frequency Converter

Behlman's FC5003 is a ruggedly built, COTS frequency converter designed to convert 120/208 VAC, 3-phase, 60 Hz, ground power to 115/200 VAC, 3-phase, 400 Hz, aircraft power. The FC5003 is in a rugged 6U (10.5"H) 19 inch rack mount chassis with an input line cord with plug and an output receptacle.



**INPUT:** 120/208 VAC +10%,-15%, 3-phase, 57-63 Hz  
Multi-pulse input transformer for low input current THD.

**OUTPUT:**

Power:	5,175 VA with 120% overload for 5 minutes
Voltage:	115/200 VAC, 3-phase
Current:	15 amps continuous, per/phase (17 amps for five minutes per/phase).
Frequency:	400 Hz +/- 0.5 Hz
Current Crest Factor:	3:1 Typical
Distortion:	2.5% Typical THD with full resistive load
Load Regulation:	+/- 0.7% No Load to Full Load
Line Regulation:	+/- 0.1% for $\pm 10\%$ Line Change
Power Factor:	100% of rated output into any power factor load.
Efficiency:	85 typical

#### PROTECTIVE CIRCUITS:

Input:	Fast acting main circuit breaker with guard and indicator
Constant Current:	Overload automatically causes voltage fold back to provide maximum current without distorting output waveform.
Short Circuit:	Short Circuit electronically latches output open to protect load. Power restored by cycling circuit breaker.
Thermal:	Internal temperature sensor prevents heat damage.

#### CONTROLS/INDICATORS:

Meters:	Two DMM's, True RMS Volts with 0.1V resolution. +/- 1% of full scale +/- 1LSB and Amps with 0.1Amp resolution . +/- 1% full scale +/- 1 LSB
Phase select:	Three-position switch for phase A, B, C
Fault:	Three LED's for Constant Current, Overload Latch & OverTemp
Output On/Off:	Push-button switch with indicator

**MECHANICAL SPECIFICATIONS:**

Rack mount chassis: 19" rack-mount chassis 10.50"H (6U) x 22"D with handles front & rear  
Weight: Approximately 160 lbs.  
Cooling: Internal fans; air in- front & sides, air out- rear  
Operating Temp: 0 - 50 ° C  
Storage Temp: -20 - +60 ° C  
Humidity: 0 - 95% RH non-condensing.  
Input connection: Pre-wired six foot line cord with NEMA L21-30P type plug. (Hubbell # 2811)  
Output Connections: NEMA type FSL4FR compliant receptacle on rear

**STANDARD OPTIONS:**

S: Slides



**Rear View**

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