

## FC5003-C1-115-400 AC Source Specifications

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: 5000 VA with 120% overload for 5 minutes  
Voltage: 115/200 VAC, 3-phase  
Current: 14.5 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 +/-10% Line Change  
Power Factor: 100% of rated output into any power factor load.  
Efficiency: 85-90% 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 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

## OPTIONS

S: Slides



Rear View

# Behlman

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FC5003.05 NOV 10