### **Behlman Power Products**

AC Power Source/ Frequency Converter

## Model FC5003-C1-115-400

# Three-phase 60 Hz to 400 Hz Frequency Converter

Behlman's FC5003 is a "turn Key", 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.

Small size, quite operation and high efficiency make the FC5003 ideal for precision Military and industrial avionic product test and power conversion and motor generator replacement.

#### **SPECIFICATIONS**

**INPUT:** 120/208 VAC +10%,-15%, 3-phase, 57-63 Hz

Multi-pulse input transformer for low input current THD.



#### **OUTPUT:**

Power: 6,000 VA

Voltage: 115/200 VAC, 3-phase

Current: 16 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:  $\pm -0.7\%$  No Load to Full Load Line Regulation:  $\pm -0.1\%$  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 - 40° 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 FSL4-FR compliant receptacle on rear

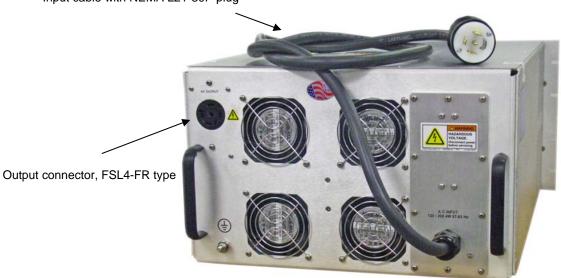
#### **STANDARD OPTIONS:**

S: Slides

**TSC-6:** 24" black case fixed composite with aluminum frame and isolation

system.

Input cable with NEMA L21-30P plug



**Rear View** 







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