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 ±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