FCTT12000R Series AC/AC 3-Phase to 3-Phase Freqency Converter

Benefits

- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Marine / Automotive / RV
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

AC/AC Converters

FCTT12000R Series

Description

The FCTT12000R AC/AC frequency converter provides 3-phase power from a 3-phase line outlet.
The standard unit delivers 3-phase outputs of 208rms, 380Vrms or 415Vrms (PH-PH) continuous at 50, 60, or 400Hz.

The floating outputs are isolated from each other and can be connected in a 'Y' configuration or left as three individual outputs. In 'Y' configuration, the centre point (neutral) can be grounded.

The FCTT12000R can be shut down electronically via a control switch on the front-panel of the unit.
Remote shut-down and output voltage adjustment options are available.

The unit features full electronic protection, high efficiency and low input and output noise.

Features

- Input is filtered to EN 55022 Class B
- Sinusoidal wave shape
- Isolated, floating output
- 12000VA of output power
- Full electronic protection
- High reliability
- Telecom quality
- Field-proven design topology

Specifications *(Specifications Subject to Change Without Notice)*

Electrical (Input)

Input Voltage VAC	208V, 380V or 415VAC, 3-phase 47 … 410Hz range Consult factory for other inputs
Input Protection	Thermal fuse, Inrush current limiting

Electrical (Output)

Output	208Vrms/ 3-phase continuous or 380Vrms/3-phase continuous or 415Vrms/3-phase continuous at 50, 60, or 400Hz The centre point (neutral) is floating - it can be grounded. Consult factory for other voltages and frequencies
Output Protection	Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow
Wave Form	Sinusoidal

Indications & Electrical

Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 77% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum ± 6% from 10% load to full load
Load Crest Factor	Maximum 3.0 at 90% load
Frequency Stability	± 0.1%
Operating Temperature Range	0° - 50°C Extended range available (Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift (for output voltage level)	0.05% per °C over operating temperature range
EMI	EN 55022 Class B

Mechanical Specifications

Depth	38.1 cm
Width	19“
Height	12U
Weight	158 lb / 70 kg
Connections	Input/output: terminal block
Warranty	1 year
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950 Please contact factory for approval status for the requested input/ output configuration

Available from:

RIPEnergy®

The power conversion company

RIPEnergy AG
Talstrasse 2
CH-8702 Zollikon
Switzerland

Ph +41-(0)43-818 53 85
Fax +41-(0)43-818 53 87
www.ripenergy.ch