



ANALYTIC SYSTEMS

Power Conversion Solutions

AC/AC Frequency
Converters

Model

FTT3000R

3Ø to 3Ø Frequency Converters



Description

The FTT3000R 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 FTT3000R 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.

Benefits

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

Design Features

- ◆ Sinusoidal wave shape
- ◆ Isolated, floating output
- ◆ 3000VA output power
- ◆ Full electronic protection
- ◆ Telecom quality
- ◆ Field-proven design topology

Applications

- ◆ Aviation / Marine
- ◆ 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 Frequency Converters

FTT3000R Series 3Ø to 3Ø Frequency Converters

| | |
|-----------------------------|--|
| Input Voltage | 208V, 380V or 415VAC, 3-phase 47 ... 410Hz range (Consult factory for other inputs) |
| Input Protection | Thermal fuse, Inrush current limiting |
| Isolation | 2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis |
| Output Voltages | 208rms/ 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) |
| Wave Form | Sinusoidal |
| Total Harmonic Distortion | Less than 5% at full load |
| Efficiency | Min 78% at full load |
| Line Regulation | Maximum 0.5% |
| Load Regulation | Maximum \pm 6% from 10% load to full load |
| Output Protection | Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow |
| EMI | EN 55022 Class B (typical) |
| Load Crest Factor | Maximum 3.0 at 90% load |
| Frequency Stability | \pm 0.1% |
| Operating Temperature Range | 0° C to +50° C (Extended range available, Consult factory) |
| Humidity | 5 - 95% non-condensing |
| Temperature Drift | 0.05% per °C over operating temperature range |
| Dimensions | 6U x 19" x 15" Enclosed Case |
| Connections | Input/output: terminal block |
| Weight | 48 pounds (21.8kg) |

Warranty: Twelve months subject to application within good engineering practice. Enhancements to these general specifications can be accommodated upon request. Designed to meet common approval requirements. Specifications Subject to Change Without Notice. Designed and Manufactured in Canada



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