

Source Control Document.

Model: FTT3K-E3P/A-3U7-T6261

COSD: XXXX

**Summary Description: 3000VA, Industrial Quality Frequency Converter
400Vac, 3-phase to 120Vac/60Hz**

Customer Name: Coromatic/DK

Customer Part Number: Same as above



Product description:

This rugged, AC/AC frequency converter system uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage. The frequency converter is built with internal power modules. Four CAP 1000 modules convert the input voltage to an internal DC voltage, which feeds two MSI 1500 AC output modules. The built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. The high frequency conversion enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: Conformal coating, chassis mount

SPECIFICATIONS

Input Voltage

400Vac 3-phase, 47-63Hz
360-440Vac operating range
Input current: 7.5Arms per phase max.

Input Protection

Inrush current limiting
Varistor
Internal safety fuse
Lower voltage than specified
input min. will not damage unit

Isolation

2250Vdc input to chassis
Output neutral is connected to
the chassis internally

Standards

Designed to meet
C22.2 No. 107.1 – 01,
UL 458 and EN 60950-1

EMI

EN 55032 Class A with margins

Output Voltage

120Vac/25Arms, 60Hz
Output neutral is internally connected to
chassis

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line / Load Regulation

± 6% from no load to full load

Load Crest Factor

2 at 90% load

Output Noise

High frequency ripple is less
than 500mVrms (20MHz BW)

Output Overload Protection

Current limiting with short
circuit protection
Thermal shutdown with automatic
recovery in case of insufficient cooling

Output Overvoltage Protection

140Vac by internal supply voltage
limiting

Efficiency

80% at full load

Operating Temperature Range

0°C to +50°C

Temperature Drift

0.05% per °C over operating
temperature range

Cooling

By built-in high quality fans

Environmental Protection

Basic ruggedizing
Conformal coating

Shock / Vibration

IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

110,000 hours at 45°C (Fans excluded)
Demonstrated MTBF is significantly
higher

Indicators

Green OUTPUT ON LED on the four
input modules visible through the cooling
slots

Control Input

Not installed

Alarm Output

Not installed

Package / Dimensions (WxHxL)

3U7: 432 x 132 x 407mm
(17" x 5.2" x 16")

Chassis mount

Weight

12 kg (26 lbs)

Connections


Input: 3-pole Phoenix FRONT 2.5-V/SA10
Output: 3-pole terminal block, 13mm
spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application
within good engineering practice
Contamination related failures and
shipping cost excluded

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