

Model: FC 2K5-EA-3U5-T7029
COSD: XXXX
Summary description: 2500VA Industrial Quality Frequency Converter
 230Vac/50Hz to 115Vac/60Hz
Customer Name: Thiele KG/Germany (KS)
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. Two 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

SPECIFICATIONS

<p>Input Voltage 230Vac nominal, 47-63Hz 196-264Vac operating range Input current: 16Arms max. Power factor meets EN61000-3-2, -12</p> <p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than specified input min. will not damage unit</p> <p>Isolation 2250Vdc input to chassis 2250Vdc output to chassis Output isolated from the chassis</p> <p>Standards Designed to meet C22.2 No. 107.1 – 01, UL 458 and EN 60950-1</p> <p>EMI EN55032 Class A as with margins</p> <hr/> <p>Output Voltage 115Vac/60Hz/21Arms continuous Output is isolated from chassis</p> <p>Output Wave Form Sinusoidal</p> <p>Total Harmonic Distortion Less than 5% at full load</p>	<p>Line/Load Regulation $\pm 6\%$ from no load to full load</p> <p>Load Crest Factor 2 at 90% load</p> <p>Output Noise High frequency ripple is less than 500mVrms (20MHz BW)</p> <p>Output Overload Protection Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient cooling</p> <p>Output Overvoltage Protection 140Vac by internal supply voltage limiting</p> <p>Efficiency 80% at full load</p> <p>Operating Temperature Range 0°C to +50°C for full specification with proper installation</p> <p>Temperature Drift 0.05% per °C over operating temperature range</p> <p>Cooling By built-in high quality fans</p> <p>Environmental Protection Basic ruggedizing Conformal coating</p>	<p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 – 95% non-condensing</p> <p>MTBF 85,000 hours @ 45 °C (Fans not included)</p> <p>Indicators None</p> <p>Control Input Not installed</p> <p>Alarm Output Not installed</p> <p>Package / Dimensions (W x H x L) 3U5: 305 x 132 x 407mm (12" x 5.2" x 16") L-brackets included for mounting</p> <p>Weight 10.8kg (23 lbs)</p> <p>Connections Input: Terminal block Output: Terminal block</p> <p>RoHS Compliance Compliant</p> <p>Warranty Two years subject to application within good engineering practice. Contamination related failures and shipping costs excluded.</p>
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