

**Preliminary**

**Model:** FC 2K8-UE-3U7-U2519

**COSD:** XXXX

**Summary description:** 2760VA Industrial Quality Frequency Converter  
Universal AC to 230Vac, 50Hz

**Customer Name:** Thiele KG/Germany

**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. Five CAP1200 modules convert the input voltage to an internal DC voltage, which feeds two MSI 2300 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:** Universal AC input with PFC, 35-70Hz range, Conformal coating.

**SPECIFICATIONS**

**Input Voltage**

85-264Vac universal, 35-70Hz

Input current: 39Arms max.

Power Factor meets EN 61000-3-2, and -12

**Input Protection**

Inrush current limiting

Varistor

Internal safety fuse

Lower voltage than specified minimum input will not damage the unit

**Isolation**

2250Vdc input to chassis

Output neutral is internally connected to chassis

**Standards**

Designed to meet

C22.2 No. 107.1 – 01,

UL 458 and EN 62368-1

**EMI**

EN55032 Class A with margins

**Output Voltage**

230Vac, 12Arms continuous, 50Hz

Output neutral is internally connected to chassis

**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**

270Vac 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**

105,000 hours at 45 °C

**Indicators**

None

**Control Input**

None

**Alarm Output**

None

**Package/Dimensions (WxHxL)**

3U7: 432 x 132 x 407mm

(17" x 5.2" x 16")

Mounting holes are clear

**Weight**

14kg (31 lbs)

**Connections**

Input: Terminal block

Output: Terminal block

**RoHS Compliance**

Compliant


**Warranty**

Two years subject to application

within good engineering practice

Contamination related failures and

Shipping cost excluded

Originated by TS/kv	Date August 9, 2022
Updated by TS	Drawing No./ Rev. SCD U2519A
Approved by TS	

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