

Model: CSI 300-220E-F3T-T3825

COSD: XXXX

Summary Description: 300VA Industrial Quality Sine Wave Inverter
220Vdc to 230Vac/50Hz

Customer Name: Thiele KG/Germany (KS)

Customer Part Number: Same as above



Product description:

This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage. It is a mature design with a track record in numerous applications. The DC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output. The use of 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. Cooling is via baseplate to a heatsinking surface and by natural convection. 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

Input Voltage

220Vdc nominal
187-253Vdc operating range
Input Current: 1.9A max

Input Protection

Inrush current limiting
Varistors
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified minimum will not damage the unit

Isolation

1500Vdc input to chassis
2250Vdc input to output
1500Vdc output to chassis

Standards

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

EMI

EN55032 Class A with margins

Output Voltage

230Vac/1.3Arms continuous, 50Hz
Output is floating

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line/Load Regulation

±2% 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 continuous overload or insufficient cooling

Output Overvoltage Protection

By internal supply voltage limiting at 270Vac

Efficiency

84% at full load

Operating Temperature Range

0°C to +50°C baseplate temperature

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Conduction/convection

Environment Protection

Basic ruggedizing
Conformal coating

Shock/ Vibration

IEC 61373 Cat 1 A&B

Humidity

5 -95% non-condensing

MTBF

130,000 hours at 45°C

Indicators

None

Control Input

None

Alarm Output

Not installed

Package/Dimensions (WxHxL)

F3: 132 x 64 x 300mm
(5.2" x 2.5" x 11.8")
Mounting holes are clear

Weight

2kg (4.4 lbs)

Connections

12-pole barrier-type terminal block with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

AC OUTPUT					DC INPUT						
NOT USED	L1	L2	NOT USED	GND	NOT USED	NOT USED	NOT USED	-	-	+	+
1	2	3	4	5	6	7	8	9	10	11	12

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