

AC/DC Wandler

PFH3K-E3P/80-4U4

Technische Daten



Abbildung ähnlich



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Model: PFH 3K-E3P/80-4U4-U5562
COSED: XXXX
Summary Description: 3000W, Industrial Quality Power Supply
400Vac, 3-phase (L-L) to 80Vdc/37.5A
Customer Name: Thiele/ Germany
Customer Part No: Same as above



Product description:

This rugged, industrial quality power converter uses field proven technology to generate the required output power. The system contains three PFHI 1000 internal modules. Built-in fans provide sufficient airflow for operation at the specified temperature without de-rating. The fans draw air into the unit and the exhaust exits at the rear of the unit. The system has full electronic protection. The input and output are filtered for low noise. Large design headroom and the use of components with established reliability result in a high MTBF. The unit is manufactured at our plant under strict quality control.

Special Features: Active PFC input. Conformal coating.

SPECIFICATIONS

Input Voltage

400Vac 3-phase (L-N), 47-63Hz
360-440Vac operating range
Input Current: 5.7Arms max. per phase
Power factor meets EN61000-3-2, -12

Input Protection

Inrush current limiting
Internal safety fuse link
Varistor
Lower voltage than the specified minimum input will not damage the unit

Isolation

2250Vdc input to chassis
5600Vdc input to output
1500Vdc output to chassis

Standards

Designed to meet EN62368-1 and corresponding standards

EMI

EN55032 Class A with margins

Hold-Up Time

Min. 5ms at nominal input for 5% drop of the output voltage

Switching Frequency

80kHz \pm 5kHz

Output Voltage/Current

80Vdc \pm 0.5V/37.5A
Output is floating, either terminal can be grounded

Redundancy Diode

Installed internally for separation of the internal modules

Line/Load Regulation

\pm 1% combined from zero load to full load including redundancy diode

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Better than 150mVrms or 600mVpp (@ 20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection
Thermal shutdown in case of insufficient airflow (self-resetting)
Current Limit: 40A \pm 2A

Output Overvoltage Protection

Second regulator loop, completely stable and independent of main regulator loop
OVP limit: 85V \pm 3V

Efficiency

85% at full load

Operating Temperature Range

0°C to +50°C for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

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

95,000 hours @ 45°C (Fans excluded)

Indicators

Green Output ON LED on each internal modules visible through rear perforation

Control Input

None

Alarm Output

Not installed

Package/ Dimensions

4U4: 444 x 304 x 191mm
(17.5" x 12" x 7.5")
Mounting holes are clear

Weight

Approx. 8kg (18 lbs)

Connections

Input: Terminal block Phoenix FRONT type
Output: Terminal block Phoenix 125A type

RoHS Compliance

Compliant

Warranty

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



USV-Anlagen

Minimieren Sie Ausfallrisiken mit zuverlässigen USV-Systemen.

#VERSORGTBESSER

Stromversorgungen

Versorgen Sie Ihre Verbaucher mit der exakt passenden Spannung.

#WECHSELTBESSER

Netzersatzanlagen

Ihre sichere Stromversorgung bei Blackout mit Notstromsystemen.

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Energiespeicherung

Schalten und trennen Sie Ihre Lasten stabil und sicher.

#SPEICHERTBESSER

Schaltung & Schutz

Schalten und trennen Sie Ihre Lasten stabil und sicher.

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Prüftechnik

Simulieren, analysieren und prüfen Sie mit verlässlichen Komponenten.

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Service & Support

Darauf können Sie sich immer zu 100% verlassen: THIELE KG

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Custom Design

Bringen Sie Ihr Projekt weiter voran - mit maßgeschneiderten Lösungen.

#PASSTBESSER



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