

High Isolation Transformer (AC / AC Converter) Series STT 1 kVA to 3 kVA 230 Vac-Output

type number 00946



Description:

This AC-AC converter based on a new concept with a high frequency transformer which allows to provide a high isolation (reinforced) between input and output.

The new technology allows a weight reduction of up to 70 % (compared with existing 50 Hz / 60 Hz transformers).

The internal high frequency transformer generates a 230 Vac pure sine wave output at 1 kVA up to 3 kVA (depending on model).

Technical Data:

Input:

Nominal voltage:	230 Vac $\pm 10\%$
Line frequency:	50 Hz
Consumption:	< 16 A
Inrush current:	< 30 A
Harmonics (current):	Power factor corrected to EN 61000-3-2
Power factor:	typ. 0,96 %

Output:

Output voltage:	230 Vac
Output tolerance:	-10 % / +15 % (0 –100 % load)
Output current:	4 to 10 A ($T_{amb} \leq 40\text{ }^{\circ}\text{C}$)
Output power:	1 kVA to 3 kVA
Output protection:	Current limit (110 % of I_{Nom}) Short circuit protection Over voltage shutdown (125 %) Over temperature shutdown with automatic recovery
Efficiency:	typ. 90 %
Minimum load:	no minimum load required
Applicable load:	capacitive, inductive or resistive until $\cos \varphi < 0,6$
Isolation voltage:	5000 Vac (input – output) 3000 Vac (chassis – line)
Safety	acc. to EN61558-2-6 (Safety transformers)
Output protection class:	II (no PE)

Ask for further technical information!
Functional or interface modifications can be realized on request. Each configuration change causes a new type number.

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Signals / Alarms:

Optical indicator:	Green LED: Power ok Red LED: Failure 4 White LED: Load-Level
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Mechanical Specifications:

Material:	Aluminium
Dimensions:	360 x 350 x 124 mm (W x D x H) (overall, without connectors)
Weight:	< 8 kg
Finish / Colour:	Powder coating, green RAL 6031 Hr or TBD

Connectors:

Line input:	ECTA 133, 3 Pin Connector
Output:	2 wire cable
Grounding terminal:	M8 on front or rear

Environmental Data:

Temperature:	-40 °C to +70 °C (operating) -46 °C to +85 °C (storage)
Vibration / Shock:	TBD
Protection:	IP 65 (EN 60529)
Line filter / EMC:	FCC / EN / VG / MIL Standards / TBD

Option:

Input voltage:	95 Vac - 264 Vac, 50 Hz - 60 Hz
Output voltage:	110 Vac, 50 Hz - 60 Hz
Special loads:	on request

This is a preliminary data sheet.
Specifications are subjected to change.

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