

Product specification

Switch mode power supply SNT23024-K



CE-compliant

- Regulated output voltage
- Input voltage 320 - 550 V_{AC} or 450 - 780 V_{DC}
- Parallel operation possible to increase output power
- Operating status shown by LED
- Short circuit proof, overload- and open circuit protected
- Simple wallmounting with screws
- Conforms to EMC and low voltage directive
- PFC acc. to IEC/EN 61000-3-2
- Vibration proof, suitable for the tropics epoxy resin casted
- Conforms to VDE0551
- Extra low safety voltage
PELV (EN 50178) SELV (EN 60950)
- Safety acc. to VDE, EN, UL, CSA

Application

The switch-mode power supplies of the SNT230-K series are powerful and robust devices to power sensitive loads in a hard industrial environment.

These features result from the modern construction with a good radio shielding and high reliability integrated in a functional and stable casing.

The short circuit proof output DC voltage of this type can be adjusted from 22.4 to 29.6 V.

This power supply is optimally suited for loads requiring high starting currents.

Functional principle

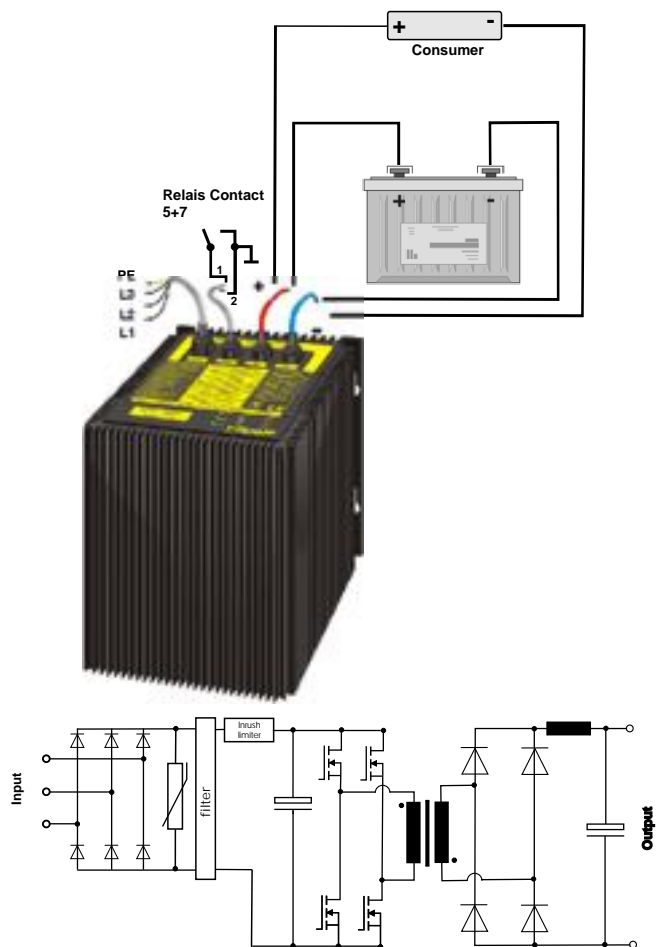
The power supplies of the SNT230-K series use a full-bridge push-pull converter. This type of converter in principle consists of two forward converters, which are connected in parallel. The switches are alternately connecting the primary windings to the input voltage.

Due to this circuit design the transformer core is used in bipolar operation, doubling the magnetic flux within the core. Compared with a flyback or a forward converter much more power can be transformed with the same core design.

Even during great load fluctuations the push-pull converter generates a symmetric output voltage. Because of that the alternating current can be processed directly without extra rectification.

Design

Completely embedded with resin in an aluminium housing for wall mounting with screws.



Please read the data sheets and the operating instructions for further information.

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