

## Mains Filter Type 5A with Inrush Current Limiter Art. no. 1 9000 015

The mains filter 5A protects electronic devices against overvoltages, lightning-induced voltages or high-frequency disturbances in the power supply. The filter is connected upstream (i.e. on the mains side) of the power supply units. Multiple power supply units with a total maximum rating of 1,150 W (5 A) can be connected.

The mains filter 5A protects the connected loads against impulse voltages of up to 4.000 V between all conductors (L, N, PE). It is universally applicable and also protects electronic devices from other manufacturers.

The integrated inrush current limiter (ICL) prevents nuisance tripping of miniature circuit breakers which can occur when the connected power supply units are switched on. The high current pulses generated at the instant of switching are reliably limited by the ICL.

The ICL damps the high inrush current by means of a high-power resistor. After a pre-defined delay time the resistor is bridged by a bypass relay ensuring an unrestricted current flow.

To avoid overheating, the module is equipped with an integrated non-replaceable thermal fuse.

**Note:** The module is not suitable for continuous flash operation!

### Technical data:

Rated voltage: 230 V, +/-10%, 50/60 Hz

Rated current: 5 A

Peak current limitation: 8 A

Limitation duration: 130 ms

Discharge current (L– N): 10 kA

Discharge current (L, N–Earth): 10 kA

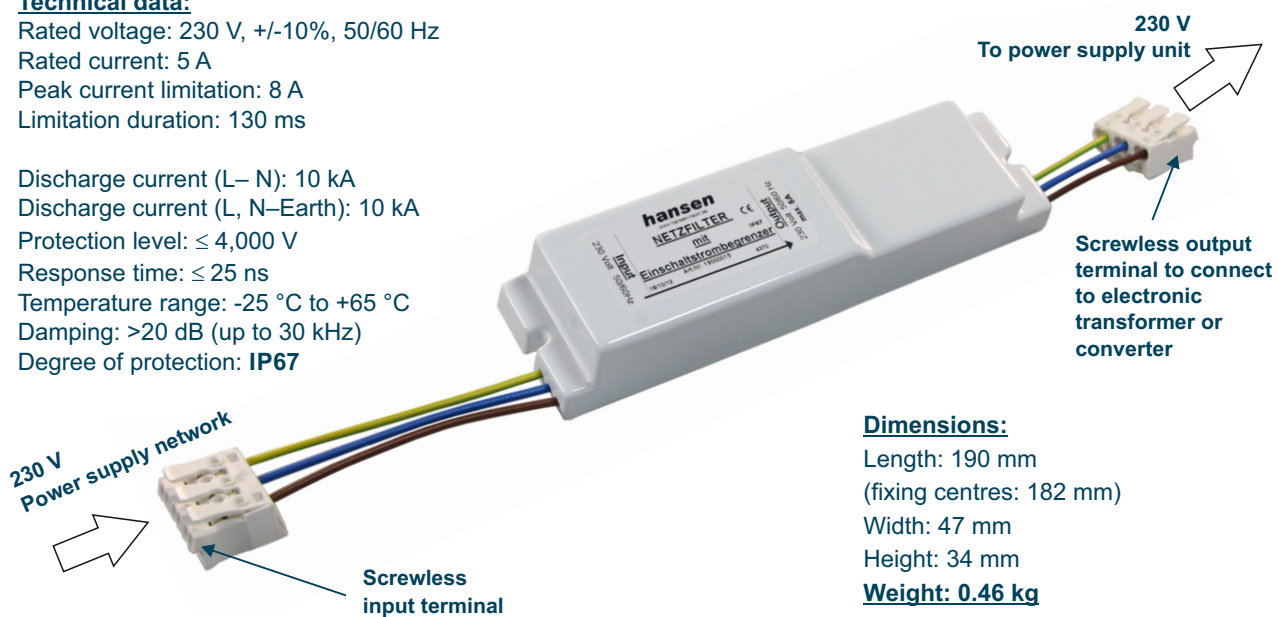
Protection level: ≤ 4,000 V

Response time: ≤ 25 ns

Temperature range: -25 °C to +65 °C

Damping: >20 dB (up to 30 kHz)

Degree of protection: **IP67**



### Dimensions:

Length: 190 mm  
(fixing centres: 182 mm)

Width: 47 mm

Height: 34 mm

**Weight: 0.46 kg**

The mains filter has been dimensioned in accordance with the following standards:

EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61547: Equipment for general lighting purposes. EMC immunity requirements

The above standards require immunity to impulse voltages of 1,000 V between L and N, or of 2,000 V between L or N and PE respectively. All electronic transformers (EVGs) and converters from Hansen exhibit this immunity. The mains filter 5A increases the voltage withstand capability to 4,000 V.

