Filter for energy inverters and EV fast charging systems

new



See below:
Approvals and Compliances

Description
- Compact high-power DC filter for rated currents up to 600 A
- 2 stage
- Very high attenuation
- Versions with or without capacitors to ground

Unique Selling Proposition
- Compact filter for high power
- Suitable for high voltages up to 1000 VDC
- Light weight design
- Wide temperature range

Applications
- Electric vehicle fast-charging stations
- High energy data centre applications
- Battery storage systems
- Photovoltaic systems
- Energy converters

Other versions on request
- 500 VDC versions
- Customized version on request

Weblinks
pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Detailed request for product, Microsite

Technical Data

Rated Current	150, 300, 450, 600 A @ 55 °C
Rated voltage	1000 VDC
Overload Current	1.35 x Ir for 2 hours @ 23°C
Dielectric Strength	4.3 kVDC between L-L, L-PE
	Test voltage 2 sec
Number of Filter Stages	2-stage
Weight	1 - 32 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis
Terminal	Copper bars
Operating Temperature	-40 °C to 100 °C
Climatic Category	40/100/21 acc. to IEC 60068-1
Degree of Protection	IP00 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
MTBF	400'000 h acc. to MIL-HB-217 F

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: FMES

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: pending
	UL Approvals	UL	UR File Number: E495089

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60939-3	Passive filters for suppressing electromagnetic interference
UL	Designed according to	UL 60939-3	Passive filters for suppressing electromagnetic interference
CSA Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC	Suitable for applications acc.	IEC 61851-23	Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment

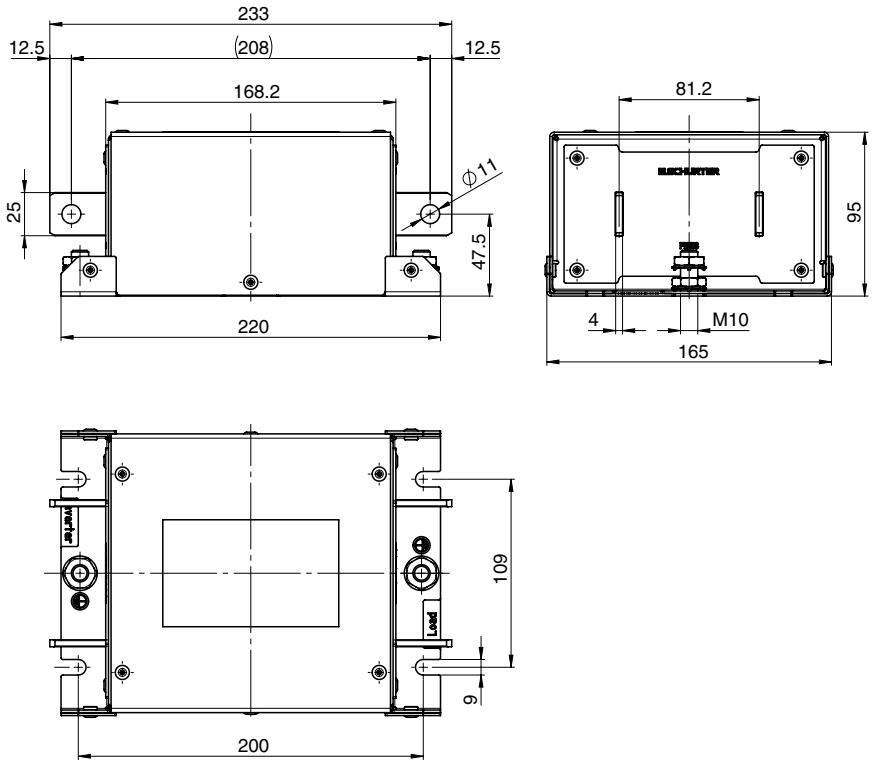
Compliances

The product complies with following Guide Lines

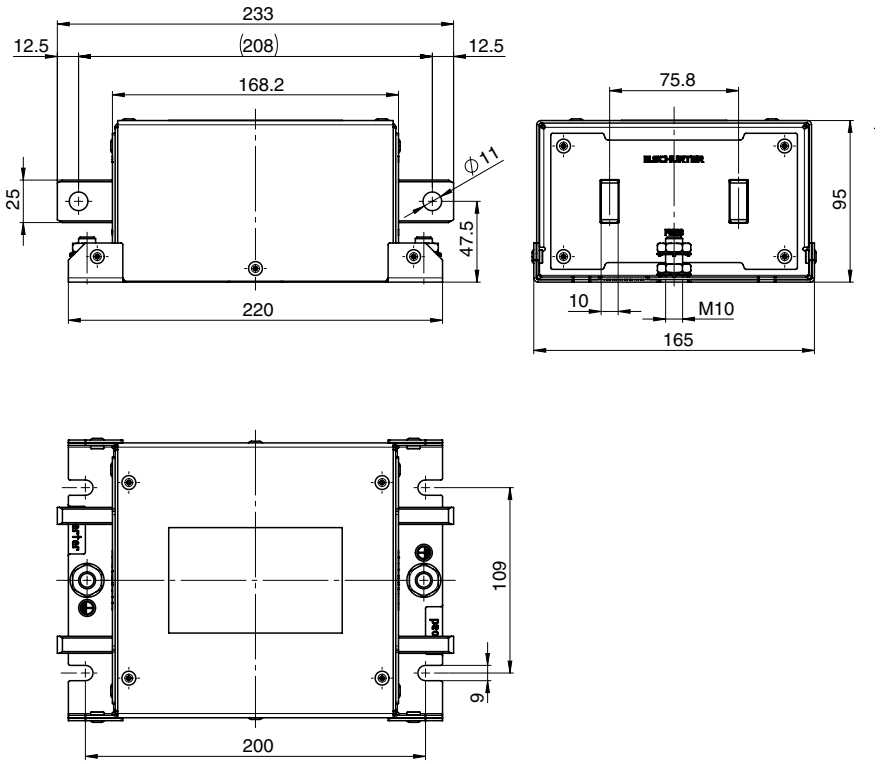
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
China RoHS	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

Case busbar 4x25 mm

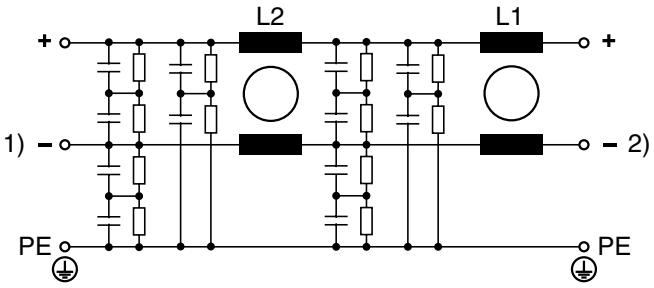


Case busbar 10x25 mm



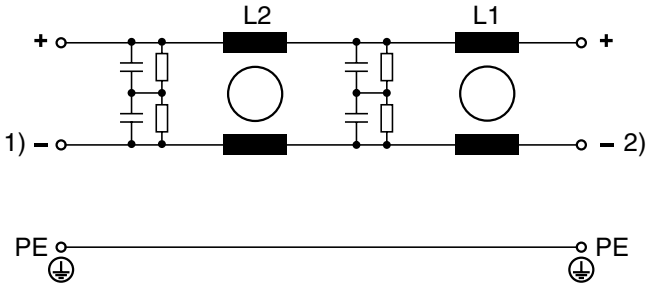
Diagrams

Standard version



1) Line, 2) Load

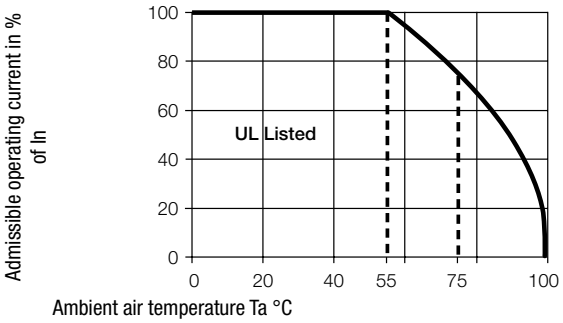
Version with low leakage current



1) Line, 2) Load

Derating Curves

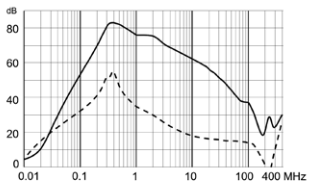
Permissible Working Current as a Function of Ambient Temperature



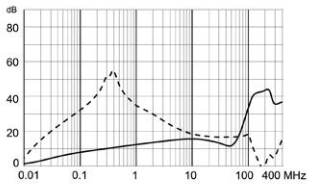
Attenuation Loss

- - - - 50Ω differential mode _____ 50Ω common mode

Standard version



Low leakage current version



Variants

Rated Current @ Ta 55°C [A]	Rated Voltage [VDC]	Filter Type	Power Dissipation [W]	Weight	Housing	Order Number
150	1000	Standard version	12	3.5 kg	busbar 4x25 mm	3-158-748
300	1000	Standard version	12	3.5 kg	busbar 4x25 mm	3-159-738
450	1000	Standard version	18	4.2 kg	busbar 10x25 mm	3-159-740
600	1000	Standard version	18	4.2 kg	busbar 10x25 mm	3-158-749
150	1000	Low leakage current version	12	3.4 kg	busbar 4x25 mm	3-159-696
300	1000	Low leakage current version	12	3.4 kg	busbar 4x25 mm	3-159-739
450	1000	Low leakage current version	18	4 kg	busbar 10x25 mm	3-159-741
600	1000	Low leakage current version	18	4 kg	busbar 10x25 mm	3-159-697

Availability for all products can be searched real-time:https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

16.11.2026

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.