AC Filter 2-Stage, Very High Symmetrical and Asymmetrical Attenuation



Approvals and Compliances

Description
- Line-filter in standard version
- 2 positions
- high attenuation

Characteristics
- Designed for increased requirements
- 2-stage line filter with increased attenuation
  Protection against interference voltage from the mains
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
  Especially suitable for use in switching power supplies
- Suitable for use in equipment according to IEC/UL 60950

References
Alternative: Standard version

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

Technical Data

Ratings IEC	3 - 36 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	3 - 36 A @ Ta 40 °C / 125 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm or screw terminals Current >24 A requires screw terminals
Material: Housing	Alu. anodised / Stainless Steel

Line Filter	Standard and Industrial Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 200'000 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

Approvals

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

Approval Reference Type: FSW

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40019274
	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
UL	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
UL	Designed according to	UL 1283	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
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	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.

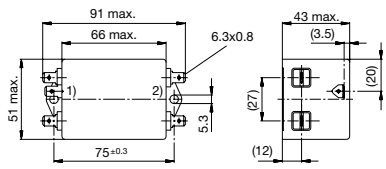
Compliances

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.
RoHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
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.

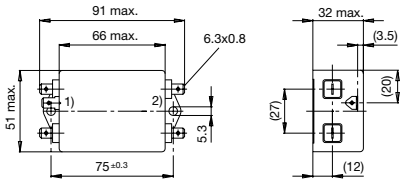
Dimension [mm]

Case 48



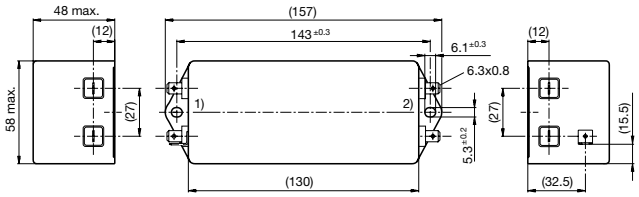
1) Line
2) Load

Case 49



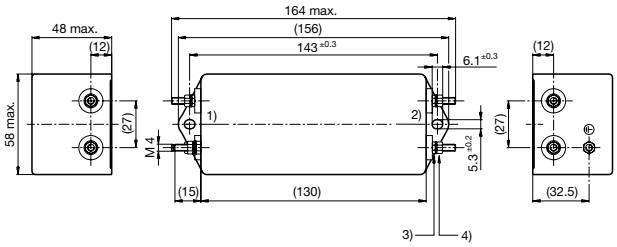
1) Line
2) Load

Case FF with quick connect terminals



1) Line
2) Load

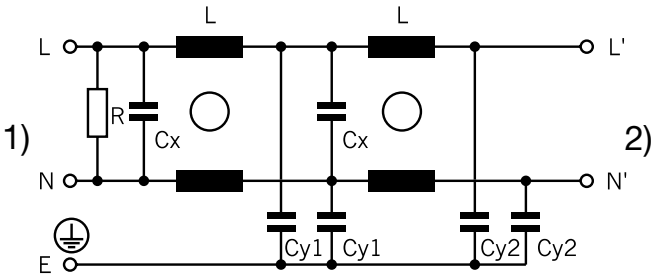
Case FF with screw terminals



1) Line
2) Load
3) Lock-nut do not unscrew
4) Nut torque 0.85...1 Nm, keep lock-nut fastened

Diagrams

Standard version



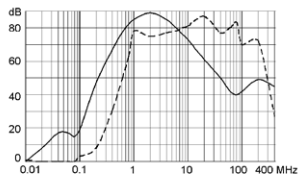
1) Line
2) Load

Attenuation Loss

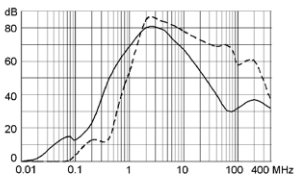
- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

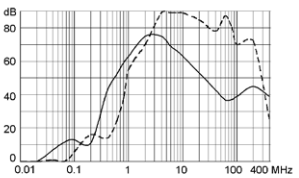
3 A



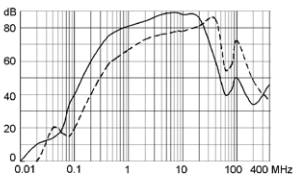
6 A



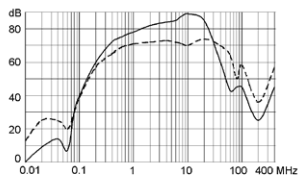
10 A



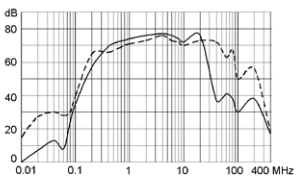
16 A



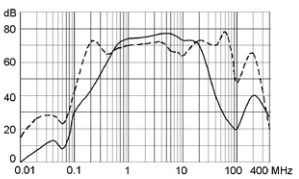
20 A



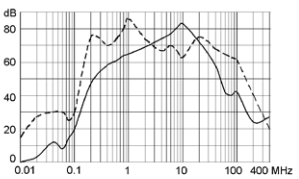
24 A



25 A

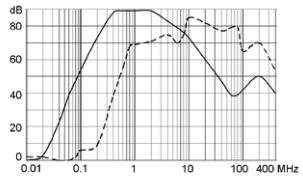


36 A

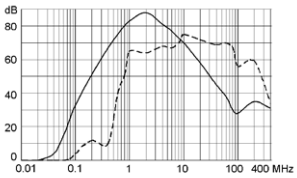


Industrial version

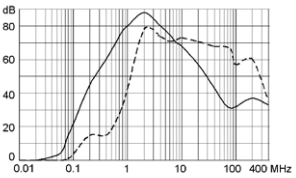
3 A



6 A



10 A



All Variants

Rated Current [A]	Filter-Type	Leakage Current [mA]	Terminal	L [mH]	Cx [µF]	Cy1 [nF]	Cy2 [nF]	R [MΩ]	Weight [g]	Housings	Packaging [PCS]	Order Number	
3	Standard Version	0.25	Quick connect terminals	2 x 2	0.1	1.5	1	1	157 g	49	10	5500.2058	■
6	Standard Version	0.25	Quick connect terminals	2 x 0.8	0.1	1.5	1	1	159 g	49	10	5500.2060	■
10	Standard Version	0.25	Quick connect terminals	2 x 0.4	0.1	1.5	1	1	159 g	49	10	5500.2062	■
16	Standard Version	0.5	Quick connect terminals	2 x 1.3	1	4.7	-	1	200 g	48	10	5500.2218	■
20	Standard Version	0.5	Quick connect terminals	2 x 2.4	2.2	4.7	-	1	840 g	FF	4	5500.2219	
24	Standard Version	0.5	Quick connect terminals	2 x 2	2.2	4.7	-	1	910 g	FF	4	5500.2220	
25	Standard Version	0.5	Bolts and nuts M4	2 x 2	2.2	4.7	-	1	910 g	FF	4	5500.2221	■
36	Standard Version	0.5	Bolts and nuts M4	2 x 1.23	2.2	4.7	-	1	910 g	FF	4	5500.2222	■
3	Industrial Version	2.5	Quick connect terminals	2 x 2	0.1	22	1	1	157 g	49	10	5500.2059	
6	Industrial Version	2.5	Quick connect terminals	2 x 0.8	0.1	22	1	1	159 g	49	10	5500.2061	■
10	Industrial Version	2.5	Quick connect terminals	2 x 0.4	0.1	22	1	1	159 g	49	10	5500.2063	■

■ Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

14.12.2017

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