AC / DC Filter, High Symmetrical Attenuation







See below:

Approvals and Compliances

Description

- Filter for 277 VAC or 400 VDC applications
- Compact filter with high symmetrical attenuation

Unique Selling Proposition

- For high AC- or DC-voltages
- Excellent symmetrical attenuation
- Completely enclosed steel housing
- Optional overvoltage protection

Characteristics

- For 277 VAC applications in North America WYE 480/277 volt system For 400 VDC applications e.g. data center
- Especially designed forapplications with symmetrical noise caused by switching semiconductors
- Suitable for use in equipment according to IEC/UL 60950 Suitable for use in medical equipment according to IEC/UL 60601-1

Other versions on request

- Version with varistor for overvoltage protection

Weblinks

pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Landing Page

Technical Data	
Ratings IEC	1 - 20 A @ Ta 40 °C / 277 VAC; 50 Hz
	1 - 20 A @ Tu 40 °C / 277 VDC
Ratings UL/CSA	1 - 20 A @ Ta 40 °C / 277 VAC; 60 Hz
	1 - 20 A @ Tu 40 °C / 400 VDC
Lookago Current	industrial < 1 m/ (250V / 60Hz)

	1 - 20 A @ Tu 40 °C / 277 VDC				
Ratings UL/CSA	1 - 20 A @ Ta 40 °C / 277 VAC; 60 Hz				
	1 - 20 A @ Tu 40 °C / 400 VDC				
Leakage Current	industrial < 1 mA (250 V / 60 Hz)				
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE				
	> 2.7 kVDC between L/N-PE				
	Test voltage (2 sec)				
Allowable Operation Tempe-	-40°C to 100°C				
rature					
Climatic Category	40/100/21 acc. to IEC 60068-1				
Protection Class	Suitable for appliances with protection				
	class I acc. to IEC 61140				
Terminal	Quick connect terminal 6.3 x 0.8 mm				
Material: Housing	Metal				

Line Filter	Standard, medical and industrial version, IEC 60939, UL 1283, CSA C22.2 no. 8
	Technical Details
MTBF	> 200'000h 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: FMAB HV

Approval Log	o Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40050001
c FU °us	UL Approvals	UL	UL File Number: E495089

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
<u>IEC</u>	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
(I)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(I)	Designed according to	UL 1283	Electromagnetic interference filters
GB CSA Broup	Designed according to	CSA C22.2 no. 42	General Use Receptacies, Attachment Plugs, and Similar Wiring Devices
GSA Broup	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
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

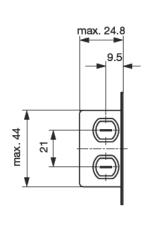
Compliances

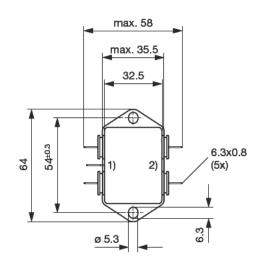
The product complies with following Guide Lines

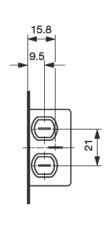
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/836
@	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]

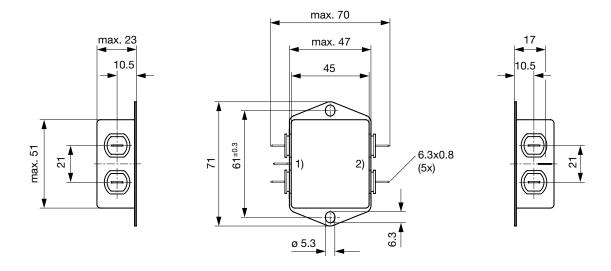
Case PG





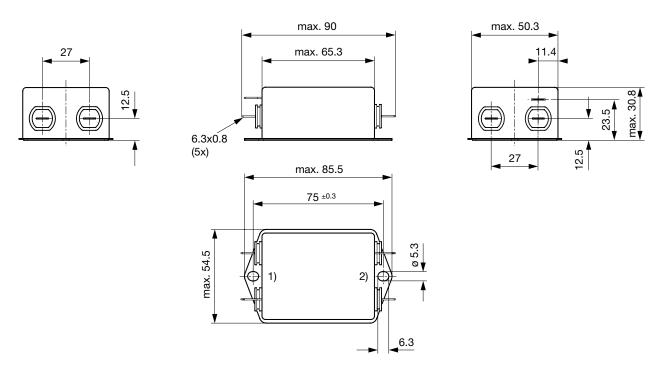


Case PH



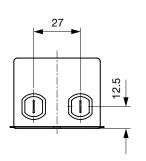
1) Line, 2) Load

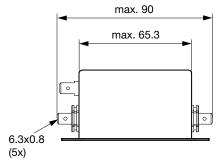
Case PI

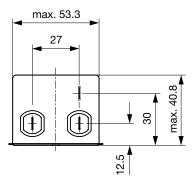


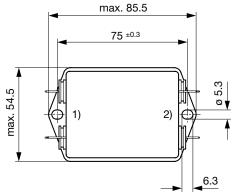
1) Line, 2) Load

Case PK







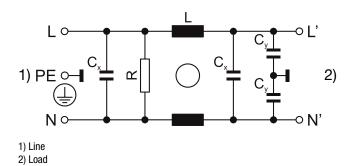


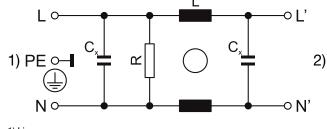
1) Line, 2) Load

Diagrams

Standard Version or medical M80



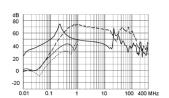




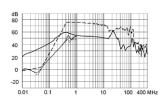
Attenuation Loss $0.1/100\Omega$ differential mode $100/0.1\Omega$ differential mode $---50\Omega$ differential mode $---50\Omega$ differential mode

Standard version

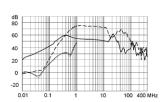
1 A



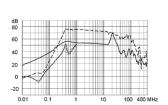
3 A



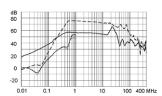
4 A



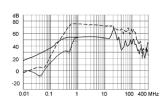
6 A



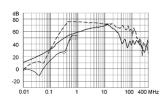
8 A



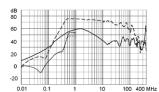
10 A



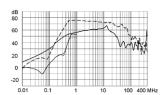
12 A



16 A

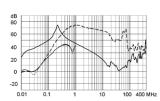


20 A

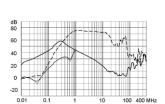


Medical version (M5)

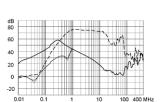
1 A



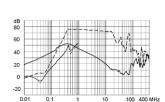
3 A



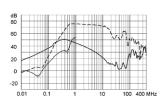
4 A



6 A



8 A



All Variants

Rated current	Filter-Type	Terminal	Lea- kage	Ri	Power Loss	Weight	Housings	Packa- ging	Order Number	
[A]			[mA]	$[m\Omega]$	[W]	[g]		[ST]		
1	Standard Version	Quick connect terminal 6.3 x 0.8 mm	0.5	560	1	72 g	PG	20	3-109-227	
3	Standard Version	Quick connect terminal 6.3 x 0.8 mm	0.5	83	1.5	104 g	PH	15	3-109-228	
4	Standard Version	Quick connect terminal 6.3 x 0.8 mm	0.5	53	1.7	108 g	PH	15	3-109-229	
6	Standard Version	Quick connect terminal 6.3 x 0.8 mm	0.5	32.5	2.4	109 g	PH	15	3-109-230	
8	Standard Version	Quick connect terminal 6.3 x 0.8 mm	0.5	29.2	3.8	190 g	PI	10	3-109-231	
10	Industrial Version	Quick connect terminal 6.3 x 0.8 mm	1	22.8	4.6	200 g	PI	10	3-109-232	

Rated current	Filter-Type	Terminal	Lea- kage	Ri	Power Loss	Weight	Housings	Packa- ging	Order Number	
[A]			[mA]	[mΩ]	[W]	[g]		[ST]		
12	Industrial Version	Quick connect terminal 6.3 x 0.8 mm	1	13.2	3.8	201 g	PI	10	3-109-233	
16	Industrial Version	Quick connect terminal 6.3 x 0.8 mm	1	7.2	3.7	308 g	PK	10	3-109-234	
20	Industrial Version	Quick connect terminal 6.3 x 0.8 mm	1	8	4.8	322 g	PK	10	3-109-235	
1	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	560	1	72 g	PG	20	3-109-236	
3	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	83	1.5	104 g	PH	15	3-109-237	
4	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	53	1.7	108 g	PH	15	3-109-238	
6	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	32.5	2.4	109 g	PH	15	3-109-239	
8	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	29.2	3.8	190 g	PI	10	3-109-240	
10	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	22.8	4.6	200 g	PI	10	3-109-241	
12	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	13.2	3.8	201 g	PI	10	3-109-242	
16	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	7.2	3.7	308 g	PK	10	3-109-243	
20	Medical (M5)	Quick connect terminal 6.3 x 0.8 mm	0.005	8	4.8	322 g	PK	10	3-109-244	
1	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	560	1	72 g	PG	20	3-109-426	
3	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	83	1.5	104 g	PH	15	3-109-427	
4	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	53	1.7	108 g	PH	15	3-109-428	
6	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	32.5	2.4	109 g	PH	15	3-109-429	
8	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	29.2	3.8	190 g	PI	10	3-109-430	
10	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	22.8	4.6	200 g	PI	10	3-109-431	
12	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	13.2	3.8	201 g	PI	10	3-109-432	
16	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	7.2	3.7	308g	PK	10	3-109-433	
20	Medical (M80)	Quick connect terminal 6.3 x 0.8 mm	0.08	8	4.8	322 g	PK	10	3-109-434	

Most Popular.

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