AC / DC Filter, High Symmetrical Attenuation



Description

- Filter for 277 VAC or 400 VDC applications
- 1-stage
- 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

See below: Approvals and Compliances

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 62368-1
- Suitable for use in medical equipment according to IEC/UL 60601-1

Applications

- For 277 VAC applications in North America WYE 480/277 volt system
- Especially designed forapplications with symmetrical noise caused by
- switching semiconductors - Suitable for use in equipment according to IEC/UL 62368-1

Other versions on request

- Version with varistor for overvoltage protection

Weblinks

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

Technical Data

loonnoa Bata			
Ratings IEC	1 - 20 A @ Ta 40 °C / 277 VAC; 50 Hz	Line Filter	Standard, medical and industrial ver-
	1 - 20 A @ Tu 40 °C / 277 VDC		sion, IEC 60939, UL 1283, CSA C22.2
Ratings UL/CSA	1 - 20 A @ Ta 40 °C / 277 VAC; 60 Hz		no. 8
-	1 - 20 A @ Tu 40 °C / 400 VDC		Technical Details
Leakage Current	industrial < 1 mA (250V / 60Hz)	MTBF	> 200'000h acc. to MIL-HB-217 F
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE		
	Test voltage (2 sec)		
Allowable Operation Tempe- rature	-40 °C to 100 °C		
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		

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 Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40050001
c FL [°] us	UL Approvals	UL	UL File Number: E495089

Product standards

Product standards that are referenced

		according to IEC 61058-1 Switches for appliances. Part 1. General requirements according to UL 1283 Electromagnetic interference filters		
Organization	Design	Standard	Description	
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference	
IEC	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements	
(ⁱ)L	Designed according to	UL 1283	Electromagnetic interference filters	
GEA Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters	

Application standards

Application standards where the product can be used

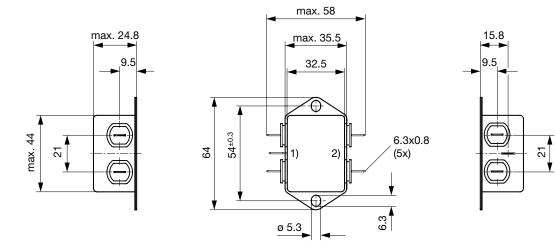
Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

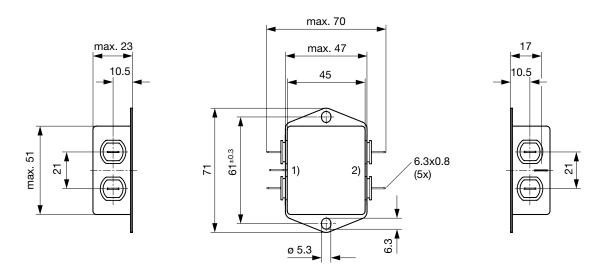
Identification	Details	Initiator	Description			
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.			
UK CA	UKCA 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			
6	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



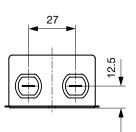
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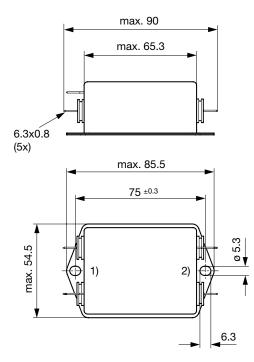
Case PH

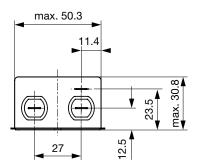


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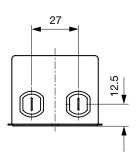
Case PI

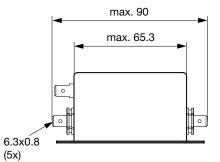


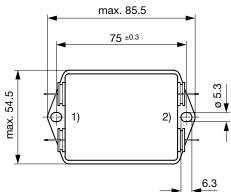


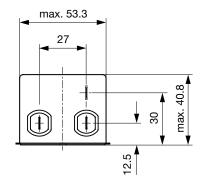


1) Line, 2) Load Case PK



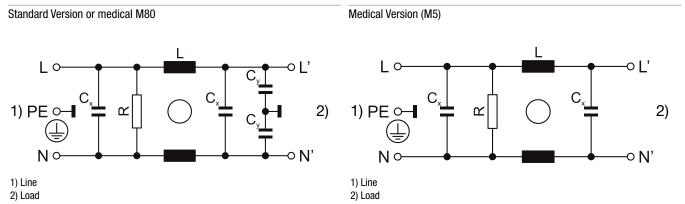






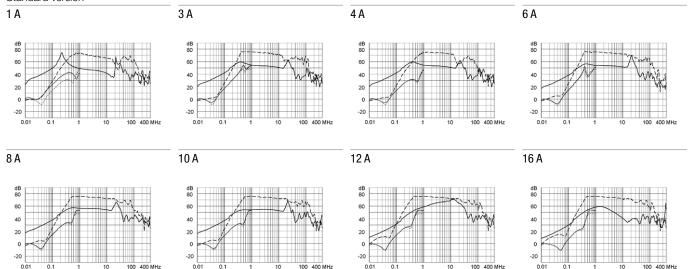
1) Line, 2) Load

Diagrams

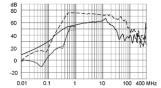


 Attenuation Loss
 0.1/100Ω
 differential mode
 100/0.1Ω
 differential mode
 - - - 50Ω
 differential mode
 50Ω
 common mode

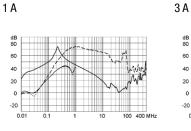
 Standard version
 Standard version
 Standard version
 Standard version
 Standard version
 Standard version



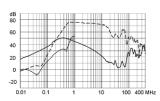
20 A

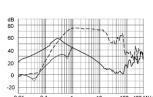


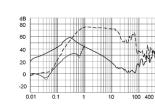
Medical version (M5)



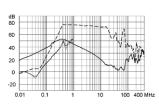








4 A



6 A

All Variants

Rated current	Filter-Type	Terminal	Lea- kage	Ri	Power Loss	Weight	Housing	Packa- ging	Order Number	
[A]			[mA]	[m Ω]	[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	
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	308 g	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

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