1-Phase AC Filters / DC Filters https://www.schurter.com /PG84

FPBB RAIL

AC/DC Filter 2-Stage, DIN Rail Mounting, Overcurrent and Overvoltage Protection



Housing RI



Housing RI with Circuit Breaker



Housing TI

Description

- Single-phase line filter in standard and medical versions
- 2-Stages filter
- very high attenuation
- broadband
- Fuseholder
- Thermal circuit breaker
- Surge protection

Unique Selling Proposition

- Slim filter for DIN-rail mounting or chassis mounting
- With fuse holder or circuit breaker for equipment
- With overvoltage protection
- Quick wiring with cage clamp terminals

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See below: **Approvals and Compliances**

Characteristics

- Protection against interference voltage from the mains Possible interferences generated in the equipment are strongly attenuated
- Especially designed for electric switch and control cabinets
- Suitable for use in equipment according to IEC/UL 60950 Suitable for use in medical equipment according to IEC/UL 60601-1

Weblinks

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

Technical Data							
Ratings IEC	<u>1 - 16A @ Ta 40 °C / 250 VAC; 50 Hz</u>	Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 3 - 15 A Short circuit capacity Icn:				
Ratings UL/CSA	48/250 VDC 1 - 16A @ Ta 40 °C / 125/250 VAC;						
	60 Hz 48/250 VDC		2000 A				
Leakage Current	standard < 1 mA (250 V / 50 Hz)		Climatic Category 05 / 060 / 21 acc.				
Dielectric Strength	1.7 kVDC between L-N 2.7 kVDC between L/N-PE Test voltage (2 sec)	Fuseholder	to IEC 60068-1 1-pole, Shocksafe category PC2 acc. to IEC 60127-6				
Allowable Operation Tempe- rature	-40 °C to 100 °C	Rated Power Acceptance @	for fuse-links 5 x 20mm 5 x 20: 2.5W				
Climatic Category	40/100/21 acc. to IEC 60068-1	Ta 23 °C					
IP-Protection	IP 20 IEC 60529	Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher				
Protection Class			ambient temperature see derating cur ves				
Terminal	Spring cage terminals , 0.2 - 2.5 mm ² , 24 - 12 AWG		Climatic Category 40 / 085 / 21 acc. to IEC 60068-1				
Material: Housing	Plastics, black, UL 94V-0	Surge protection	320 VAC , 420 VDC , 0.4 W				
Material. Housing	1 IdStics, Didok, OE 34V-0		Climatic Category 40 / 085 / 21 acc. to IEC 60068-1				
		Line Filter	Standard and Industrial Version, IEC 60939, UL 60939-3, 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: FPBB Rail

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40047767
c FLL us	UL Approvals	UL	UL File Number: E495089

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							
IEC	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links							
(h)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles							
(h)	Designed according to	UL 60939-3	Electromagnetic interference filters							
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices							
GED CSA Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters							

Application standards

Application standards where the product can be used

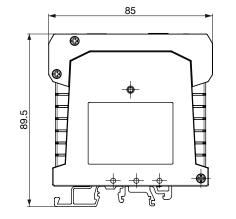
Organization	Design	Standard	Description
IEC.	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.
IEC	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

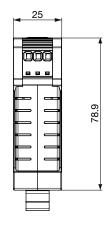
Compliances

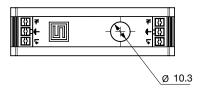
The product complies with following Guide Lines

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	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.								
-	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1								

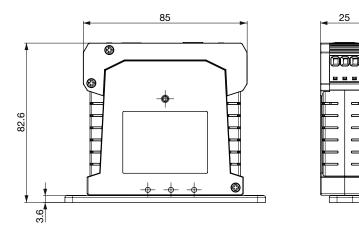
Dimension [mm] Housing RI

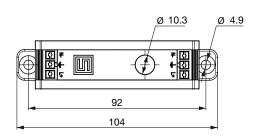


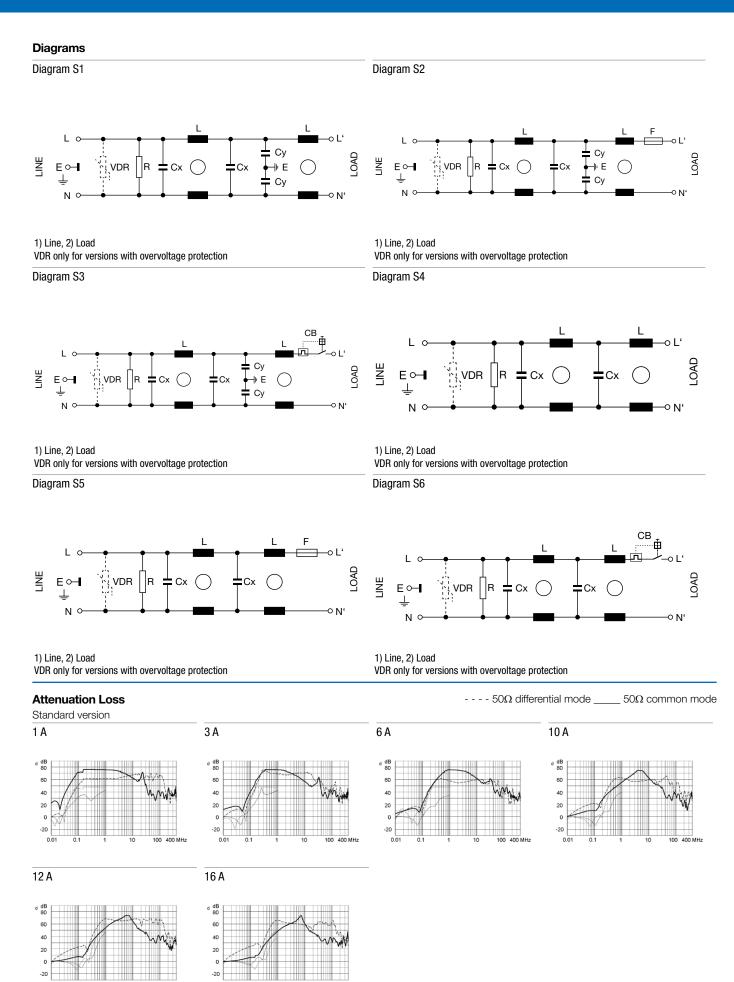


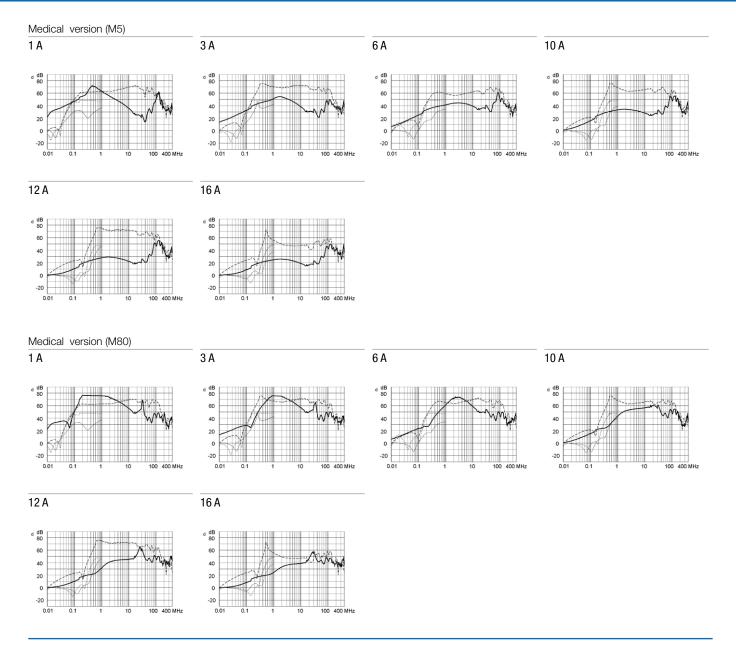


Housing TI









All Variants

Rated current	Rated vol- tage	Rated vol- tage	Filter-Type	Lea- kage Current	Ri	Power Loss	Fusehol- ders	Circuit- breaker for equipment	Surge protection	Dia- gram	Housing	Weight	Order Number
[A]	[VAC]	[VDC]		[mA]	[m Ω]	[W]						[g]	
1	250	250	Standard Version	0.5	770	1.3			-	S1	RI	115	3-103-673
1	250	250	Standard Version	0.5	770	1.3			-	S1	TI	115	3-103-714
1	250	250	Standard Version	0.5	780	1.3	٠		-	S2	RI	115	3-103-679
1	250	250	Standard Version	0.5	780	1.3			-	S2	TI	115	3-103-736
1	250	250	Standard Version	0.5	770	1.3			VDR	S1	RI	115	3-103-699
1	250	250	Standard Version	0.5	780	1.3	٠		VDR	S2	RI	115	3-103-705
1	250	250	Medical Version (M5)	0.005	770	1.3			-	S4	TI	115	3-103-980
1	250	250	Medical Version (M5)	0.005	780	1.3	•		-	S5	TI	115	3-103-986
3	250	250	Standard Version	0.5	88	1.3			-	S1	RI	115	3-103-674

Rated current	Rated vol- tage	Rated vol- tage	Filter-Type	Lea- kage Current	Ri	Power Loss	Fusehol- ders	Circuit- breaker for equipment	Surge protection	Dia- gram	Housing	Weight	Order Number
[A]	[VAC]	[VDC]		[mA]	[m Ω]	[W]						[g]	
3	250	250	Standard Version	0.5	88	1.3			-	S1	TI	115	3-103-715
3	250	250	Standard Version	0.5	98	1.3			-	S2	TI	115	3-103-737
3	240	48	Standard Version	0.5	250	1.3		•	-	S3	RI	120	3-103-693
3	240	48	Standard Version	0.5	250	1.3			-	S3	TI	120	3-103-720
3	250	250	Standard Version	0.5	88	1.3			VDR	S1	RI	115	3-103-700
3	250	250	Standard Version	0.5	98	1.3	٠		VDR	S2	RI	115	3-103-706
3	240	48	Standard Version	0.5	250	1.3		٠	VDR	S3	RI	120	3-103-709
3	250	250	Medical Version (M5)	0.005	88	1.3			-	S4	TI	115	3-103-981
3	250	250	Medical Version (M5)	0.005	98	1.3	•		-	S5	TI	115	3-103-987
6	250	250	Standard Version	0.5	30	1.73			-	S1	RI	115	3-103-675
6	250	250	Standard Version	0.5	30	1.73			-	S1	TI	115	3-103-716
6	250	250	Standard Version	0.5	40	1.73	٠		-	S2	RI	115	3-103-681
6	250	250	Standard Version	0.5	40	1.73			-	S2	TI	115	3-103-738
6	240	48	Standard Version	0.5	60	1.73			-	S3	TI	120	3-103-721
6	250	250	Standard Version	0.5	30	1.73			VDR	S1	RI	115	3-103-701
6	250	250	Standard Version	0.5	40	1.73	٠		VDR	S2	RI	115	3-103-707
6	240	48	Standard Version	0.5	60	1.3		•	VDR	S3	RI	120	3-103-710
6	250	250	Medical Version (M5)	0.005	30	1.73			-	S4	TI	115	3-103-982
6	250	250	Medical Version (M5)	0.005	40	1.73	•		-	\$5	TI	115	3-103-988
10	250	250	Standard Version	0.5	25	2.64			-	S1	RI	115	3-103-676
10	250	250	Standard Version	0.5	25	2.64			-	S1	TI	115	3-103-717
10	250	250	Standard Version	0.5	35	2.64			-	S2	TI	115	3-103-739
10	240	48	Standard Version	0.5	30	2.64		•	-	S3	RI	120	3-103-695
10	240	48	Standard Version	0.5	30	2.64			-	S3	TI	120	3-103-752
10	250	250	Standard Version	0.5	25	2.64			VDR	S1	RI	115	3-103-702
10	250	250	Standard Version	0.5	35	2.64	٠		VDR	S2	RI	115	3-103-708
10	240	48	Standard Version	0.5	30	2.64		•	VDR	S3	RI	120	3-103-711
10	250	250	Medical Version (M5)	0.005	25	2.64			-	S4	TI	115	3-103-983
10	250	250	Medical Version (M5)	0.005	35	2.64	•		-	S5	TI	115	3-103-989
12	250	250	Standard Version	0.5	12	1.6			-	S1	RI	115	3-103-677
12	250	250	Standard Version	0.5	12	1.6			-	S1	TI	115	3-103-718
12	240	48	Standard Version	0.5	25	1.6			-	S3	TI	120	3-103-753
12	250	250	Standard Version	0.5	12	1.6			VDR	S1	RI	115	3-103-703

Rated current	Rated vol- tage	Rated vol- tage	Filter-Type	Lea- kage Current	Ri	Power Loss	Fusehol- ders	Circuit- breaker for equipment	Surge protection	Dia- gram	Housing	Weight	Order Number	_
[A]	[VAC]	[VDC]		[mA]	[m Ω]	[W]						[g]		
12	240	48	Standard Version	0.5	25	1.6		•	VDR	S3	RI	120	3-103-712	I.
12	250	250	Medical Version (M5)	0.005	12	1.6			-	S4	TI	115	3-103-984	k
15	240	32	Standard Version	0.5	20	1.55			-	S3	TI	120	3-103-754	
15	240	32	Standard Version	0.5	20	1.55		•	VDR	S3	RI	120	3-103-713	P.
16	250	250	Standard Version	0.5	8	1.55			-	S1	RI	115	3-103-678	
16	250	250	Standard Version	0.5	8	1.55			-	S1	TI	115	3-103-719	P.
16	250	250	Standard Version	0.5	8	1.55			VDR	S1	RI	115	3-103-704	
16	250	250	Medical Version (M5)	0.005	8	1.55			-	S4	TI	115	3-103-985	ŀ

Most Popular.

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

Packaging unit 20 Pcs