1-stage filter for 3-phase systems with neutral conductor



See below:

Approvals and Compliances

Description

- Line filter as standard, industrial and medical version
- 1 stage
- Filter with standard or high attenuation (HP)

Unique Selling Proposition

- Compact single-stage filter
- Various filter variants
- Light weight design
- Wide temperature range

Applications

- Voltage rating 520 VAC for world wide acceptance
- For low power 3 phase energy inverter such as photovoltaic or battery storage systems
- Suitable for use in equipment according to IEC/UL 62368-1

Weblinks

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

Technical Data

Rated Current	3 - 20 A
Rated voltage	300/520 VAC, 50/60 Hz
Approval for	3 - 20 A @ 50 °C / 300/520 VAC;
	50/60 Hz
Overload Current	1.5 x Ir for 1 minute, per hour
Dielectric Strength	> 2.25 kVDC between L-L
	> 1.3 kVDC between L-N
	2.75 kVDC between L-PE
	Test voltage 2 sec
	> 1.3 kVDC between L-N
	between 2.75 kVDC L-PE
	Test voltage 2 sec/50 Hz
Number of Filter Stages	1-stage
Weight	0.2
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis	
Terminal	Screw clamps	
Operating Temperature	-40°C to 100°C	
Climatic Category	40/100/21 acc. to IEC 60068-1	
Degree of Protection	IP20 acc. to IEC 60529	
Protection Class	Suitable for appliances with protection	
	class I acc. to IEC 61140	
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: FMAD CP

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40050745
c FU °us	UL Approvals	UL	UR File Number: E495089

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
(UL)	Designed according to	UL 60939-3	Electromagnetic interference filters

Application standards

Application standards where the product can be used

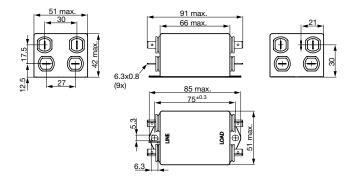
Organization	Design	Standard	Description
<u>IEC</u>	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
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.
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
©	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.

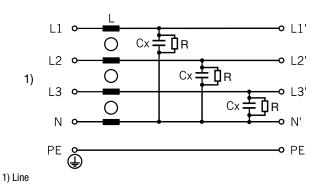
Dimension [mm]



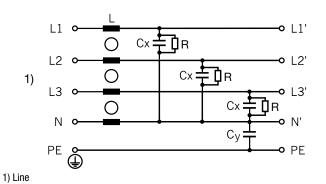
 50Ω common mode

Diagrams

Medical Version (M5)



Standard, Industrial version

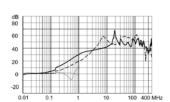


- - - - 50Ω differential mode ____

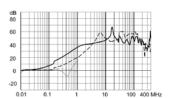
Attenuation Loss

Standard version

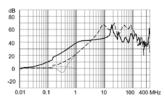
20A



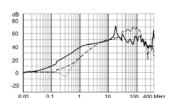
16A



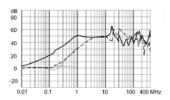
10A



6A

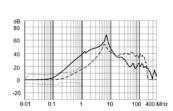


3A

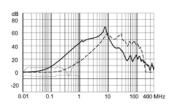


Industrial version

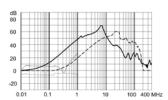
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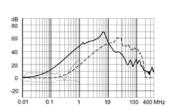
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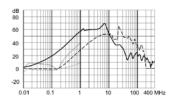
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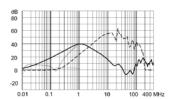


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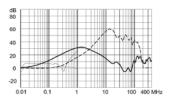


Medical version (M5)

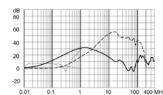
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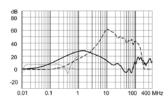
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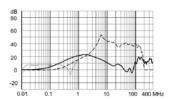
6A



16A

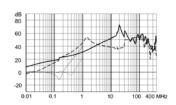


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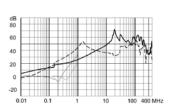


Standard HP

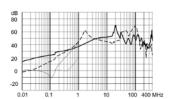
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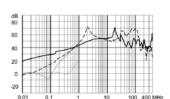
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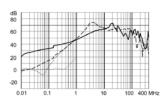
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6A

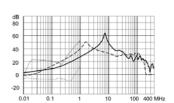


ЗА

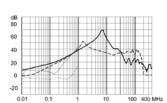


Industry HP

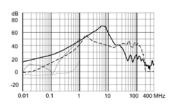
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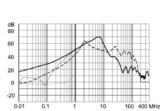
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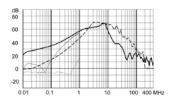
10A



6A



3A



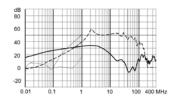
Medical (M5) HP

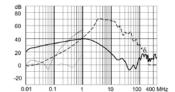
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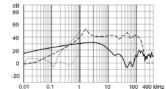


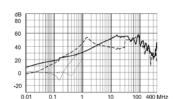
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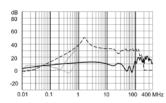








20A



All Variants

Rated Current @ Ta 50°C [A]	Filter Type	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V, 60Hz 1)	Order Number
3	Industrial version	2.8	78.9	3	3-110-821
3	Industrial version HP	2.3	63.6	3	3-110-843
3	Medical Version (M5)	2.8	78.9	0.005	3-110-817
3	Medical Version (M5) HP	2.3	63.6	0.005	3-110-839
3	Standard version	2.8	78.9	0.5	3-110-813
3	Standard version HP	2.3	63.6	0.5	3-110-835
6	Industrial version	1.9	13	3	3-110-832
6	Industrial version HP	2.2	15.3	3	3-110-844
6	Medical Version (M5)	1.9	13	0.005	3-110-818
6	Medical Version (M5) HP	2.2	15.3	0.005	3-110-840
6	Standard version	1.9	13	0.5	3-110-814
6	Standard version HP	2.2	15.3	0.5	3-110-836
10	Industrial version	2.8	6.9	3	3-110-833
10	Industrial version HP	2.5	6.2	3	3-110-845
10	Medical Version (M5)	2.8	6.9	0.005	3-110-819
10	Medical Version (M5) HP	2.5	6.2	0.005	3-110-841
10	Standard version	2.8	6.9	0.5	3-110-815
10	Standard version HP	2.5	6.2	0.5	3-110-837
16	Industrial version	3.6	3.5	3	3-111-516
16	Industrial version HP	2.8	2.7	3	3-111-519
16	Medical Version (M5)	3.6	3.5	0.005	3-111-515
16	Medical Version (M5) HP	2.8	2.7	0.005	3-111-518
16	Standard version	3.6	3.5	0.5	3-111-514
16	Standard version HP	2.8	2.7	0.5	3-111-517
20	Industrial version	3.5	2.2	3	3-110-834
20	Industrial version HP	2.5	1.5	3	3-110-846
20	Medical Version (M5)	3.5	2.2	0.005	3-110-820
20	Medical Version (M5) HP	2.5	1.5	0.005	3-110-842
20	Standard version	3.5	2.2	0.5	3-110-816
20	Standard version HP	2.5	1.5	0.5	3-110-838

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

Packaging unit

10 Pcs

Zubehör

Description



DIN_Rail_Kit Mounting accessory for compact 1- and 3-phase filters