AC Filter Cost Optimized

See below:
Approvals and Compliances

Description

- Line filter in standard and medical version
- 1-stage
- standard attenuation

Characteristics

- Designed for universal industrial applications
- High attenuation at maximum resp. asymmetric load independent from the line impedance
  Protection against interference voltage from the mains
  Possible interferences generated in the equipment are strongly attenuated
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
- Suitable for use in equipment according to IEC/UL 62368-1
  Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)

Other versions on request

- Version with wire connection

References

Alternative: Standard version
We recommend for new applications the type   FMAB NEO

Weblinks

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

Technical Data

Ratings IEC	6 - 20 A @ Ta 40 °C / 250 VAC; 50 Hz		Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
Ratings UL/CSA	6 - 20 A @ Ta 40 °C / 125 VAC; 60 Hz			
Leakage Current	standard < 0.35 mA (250V / 60 Hz)		MTBF	> 200'000 h 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 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			
Material	Nickel plated steel			

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: FMLB

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40004673
	UL Approvals	UL	UR File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
UL	Designed according to	UL 1283	Passive filters for suppressing electromagnetic interference
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	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
IEC	Suitable 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.
UKCA	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	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 (1 MOOP, 1 MOPP)

Dimension [mm]

Case 49
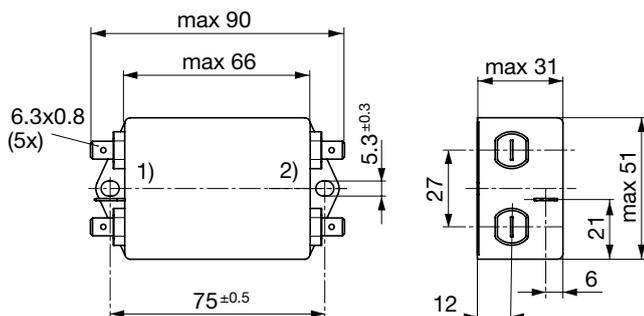
Diagrams

Standard Version or medical M80

L

L ——[▮]—— L'

1) N ——[▮]—— N' 2)

Cx

Cy   Cy

E

1) Line
2) Load

Medical Version (M5)

L

L ——[▮]—— L'

1) N ——[▮]—— N' 2)

Cx

E

1) Line
2) Load
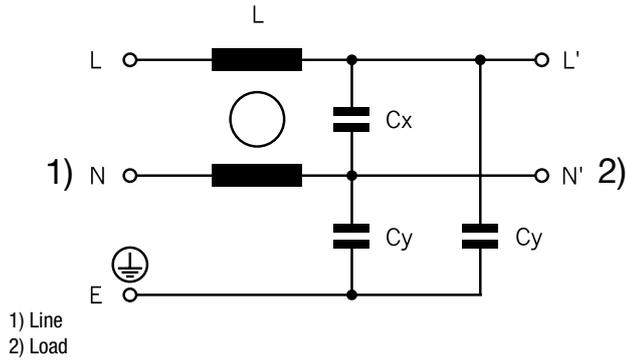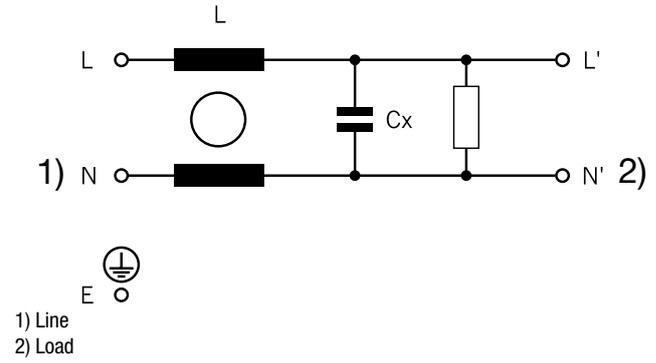
Attenuation Loss

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

Standard version

| 6 A | 10 A | 16 A | 20 A |
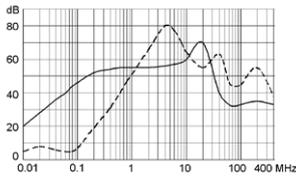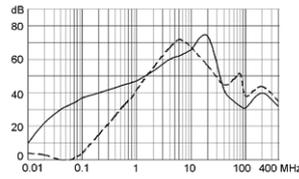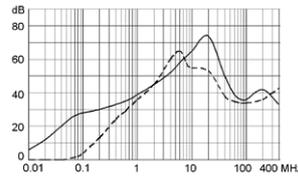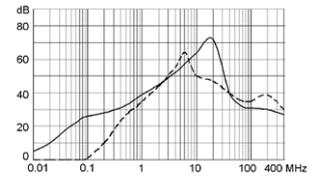
Medical version (M5)

| 6 A | 10 A | 16 A | 20 A |
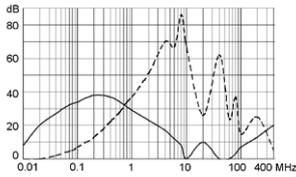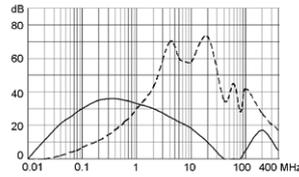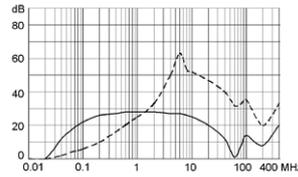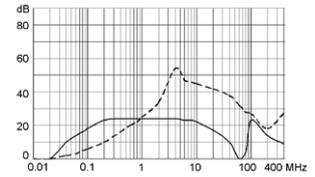
Medical version (M80)
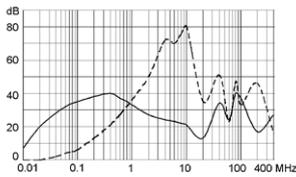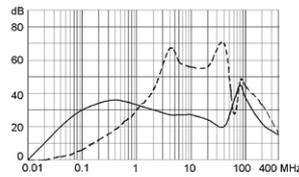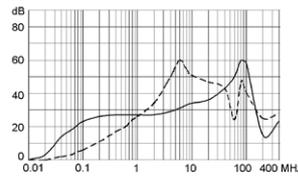
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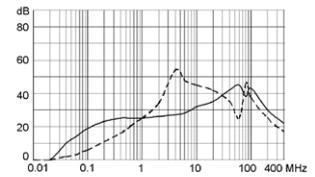
Variants

Rated Current [A]	Filter-Type	L [mH]	Cx (X2) [µF]	Cy (Y2) [nF]	Weight [g]	Housing	Order Number
6	Standard version	2 x 14	0.1	3.3	212 g	49	5500.2035
10	Standard version	2 x 5	0.1	3.3	212 g	49	5500.2036
16	Standard version	2 x 2	0.1	3.3	208 g	49	5500.2037
20	Standard version	2 x 1.5	0.1	3.3	218 g	49	5500.2038
6	Medical Version (M5)	2 x 14	0.1	-	212 g	49	5500.2082
10	Medical Version (M5)	2 x 5	0.1	-	212 g	49	5500.2083
16	Medical Version (M5)	2 x 2	0.1	-	208 g	49	5500.2084
20	Medical Version (M5)	2 x 1.5	0.1	-	218 g	49	5500.2085
6	Medical Version (M80)	2 x 14	0.1	0.47	212 g	49	5500.2094

Rated Current [A]	Filter-Type	L [mH]	Cx (X2) [µF]	Cy (Y2) [nF]	Weight [g]	Housing	Order Number
10	Medical Version (M80)	2 x 5	0.1	0.47	212 g	49	5500.2095
16	Medical Version (M80)	2 x 2	0.1	0.47	208 g	49	5500.2096
20	Medical Version (M80)	2 x 1.5	0.1	0.47	218 g	49	5500.2097

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging unit   10 Pcs

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