AC Filter, Broad Band Attenuation

See below:
Approvals and Compliances

Description

- Line-filter in standard version
- 1-stage
- high attenuation

Characteristics

- Designed for high current applications
- High attenuation at maximum resp. asymmetric load independent from the line impedance
- 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

References

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	12 - 50 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	12 - 50 A @ Ta 40 °C / 125 VAC; 60 Hz
Leakage Current	industrial < 5.2 mA (250 V / 60 Hz)
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	Screw
Material	Metal

Line Filter	Industrial version, IEC 60939, UL 1283, 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

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

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

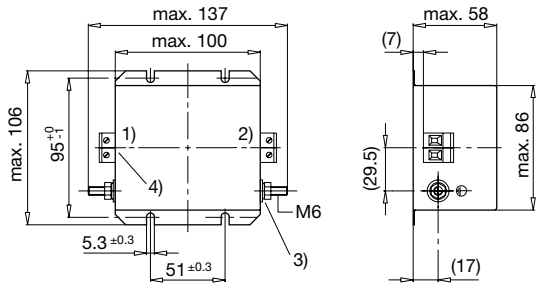
Compliances

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.

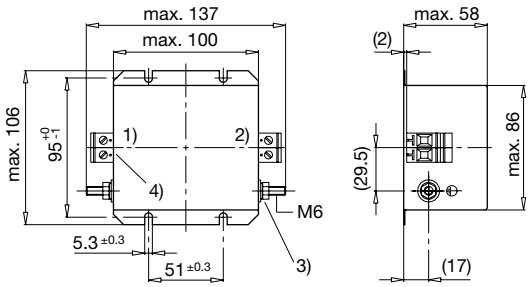
Dimension [mm]

Case 24-2



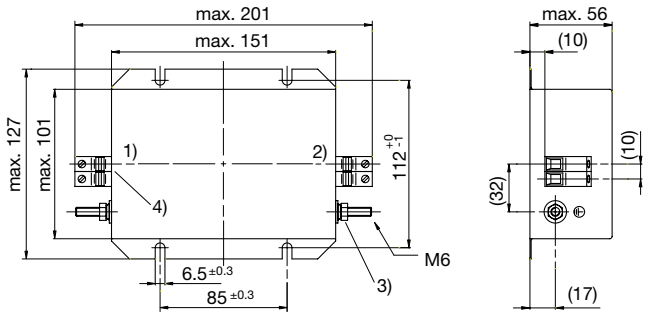
1) Line
2) Load
3) Nut torque 3...4 Nm
4) I/O Connections torque 0.6...0.8

Case 24-6



1) Line
2) Load
3) Nut torque 3...4 Nm
4) I/O Connections torque 1.5...1.8

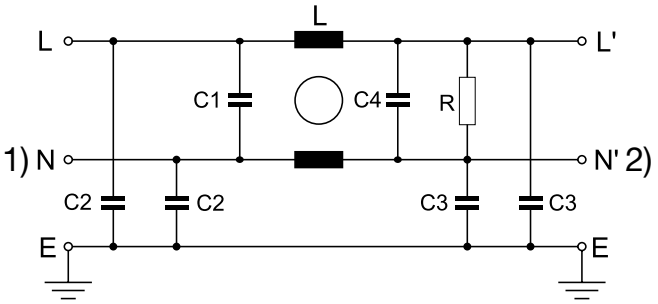
Case 79-2



1) Line
2) Load
3) Nut torque 3...4 Nm
4) I/O Connections torque 1.5...1.8

Diagrams

Standard version



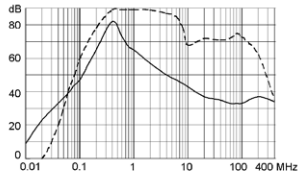
1) Line
2) Load

Attenuation Loss

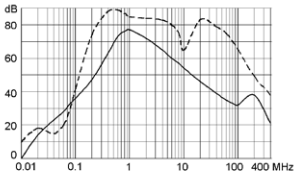
- - - - 50Ω differential mode _____ 50Ω common mode

Industrial version

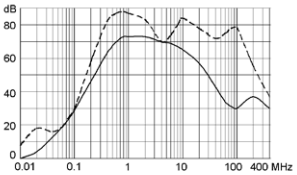
12 A



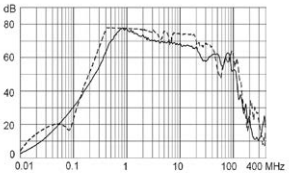
20 A



30 A



50 A



All Variants

Rated Current [A]	Filter-Type	Leakage Current [mA]	L [mH]	C1 (X2) [µF]	C2 (Y2) [nF]	C3 (Y2) [nF]	C4 (X2) [µF]	R [MΩ]	Clamps [mm2]	Weight [g]	Housing	Order Number
12	Industrial version	5.2	2 x 10	2.2	10	47	1	1	4	927 g	24-2	5500.2064
20	Industrial version	5.2	2 x 3.5	2.2	10	47	1	1	4	930 g	24-2	5500.2065
30	Industrial version	5.6	2 x 1.5	2.2	15	47	1	1	6	970 g	24-6	5500.2066
50	Industrial version	5.6	2 x 1.5	2.2	15	47	1	1	10	970 g	79-2	5500.2067

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

Packaging unit

2 Pcs

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