

2-stage filter for 3-phase systems



See below:

**Approvals and Compliances**

**Description**

- 3 phase line filter with standard attenuation

**Applications**

- Voltage rating 480 VAC for world wide acceptance
- Protection against interference voltage from the mains
- For standard and industrial applications
- Suitable for use in equipment according to IEC/UL 60950

**Weblinks**

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

**Technical Data**

Rated Current	8 - 64 A
Rated voltage	480VAC, 50/60 Hz
Approval for	8 - 64 A @ 40 (75) °C / 480 VAC
Overload Current	1.5 x Ir
Leakage Current	industrial < 5 mA (440V / 50Hz)
Dielectric Strength	480VAC: 2.25 kVDC between L-L 3 kVDC between L-PE Test voltage (2 sec)
Number of Filter Stages	2-stage
Weight	1.7 - 7.45 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis, from top
Terminal	Screw clamps
Operating Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP 20 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](#)

**Approvals**

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: FMBC

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40004666
	UL Approvals	UL	UL File Number: E72928

**Product standards**

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
	Designed according to	UL 1283	Electromagnetic interference filters





**Application standards**

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

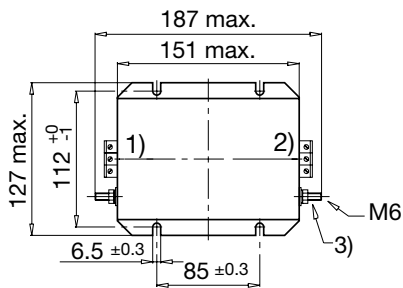
**Compliances**

The product complies with following Guide Lines

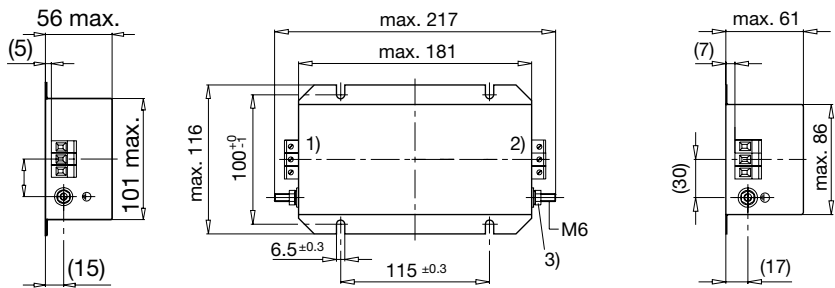
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	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	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 27-3

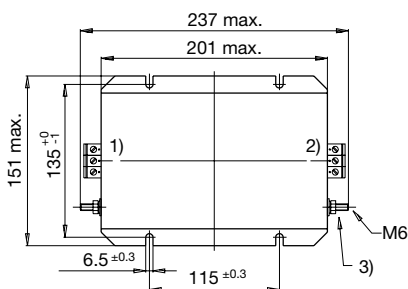


Case 31-3

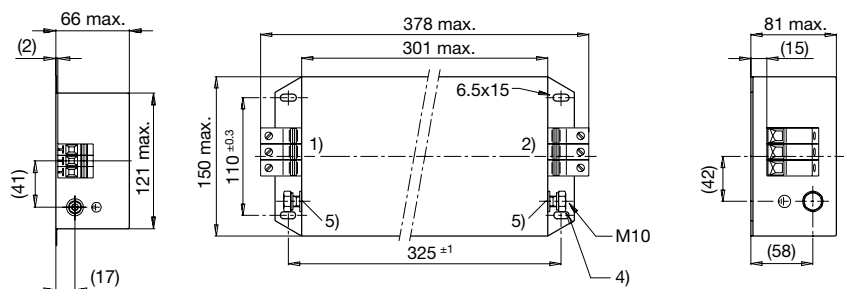


- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm

Case 32-7

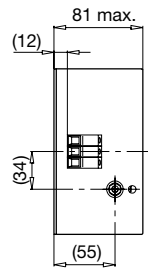
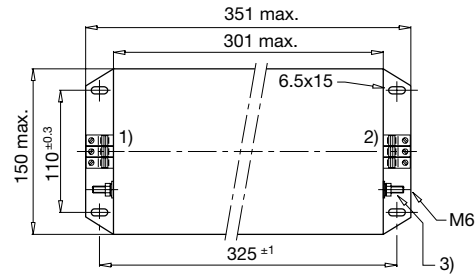
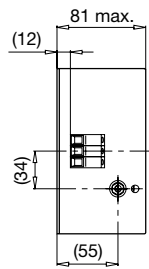
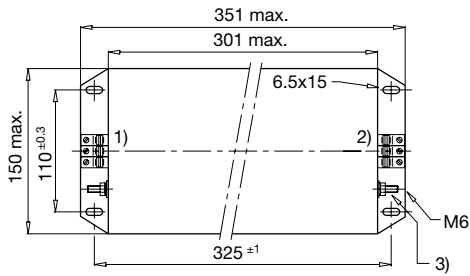


Case 37-3



Case 38-3

Case 40-3

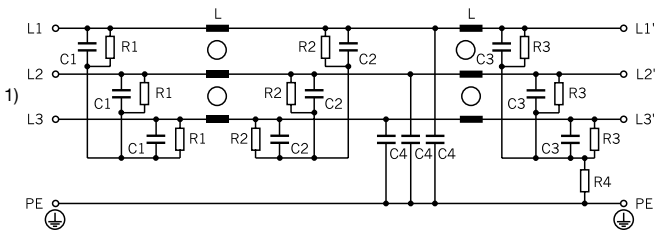


- 1) Line
- 2) Load
- 3) Tightening torque 3...4 Nm
- 4) Tightening torque 10...17 Nm
- 5) Do not unscrew lock-nut

**Technical data to the filter components**

Bemessungsstrom @ Tu 40°C (75°C) [A]	Characteristic	L [mH]	C1 [µF]	C2 [µF]	C3 [nF]	C4 [nF]	R1 [MΩ]	R2 [MΩ]	R3 [MΩ]	R4 [MΩ]
8 (5.6)	Excellent attenuation	8	1.0	1.0	2.2	47	-	-	1	1
12 (6.6)	Excellent attenuation	5.5	1.0	1.0	2.2	47	-	-	1	1
16 (8.8)	Excellent attenuation	4.5	1.0	1.0	2.2	47	-	-	1	1
25 (13)	High attenuation	2.4	1.0	2.2	2.2	47	-	-	1	1
25 (16)	Excellent attenuation	4.5	1.0	2.2	2.2	47	-	-	1	1
36 (19)	High attenuation	1.5	1.0	2.2	4.4	47	-	1	1	1
36 (19.5)	Excellent attenuation	3	1.0	2.2	4.4	47	1	1	1	1
50 (27)	High attenuation	1	2.2	2.2	4.4	100	-	1	1	1
64 (36)	Excellent attenuation	0.85	2.2	2.2	4.4	100	-	1	1	1

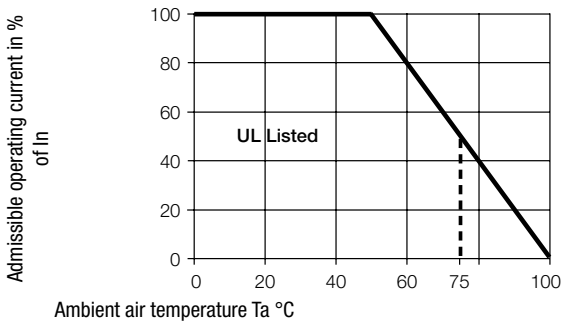
**Diagrams**



- 1) Line

**Derating Curves**

Permissible Working Current as a Function of Ambient Temperature

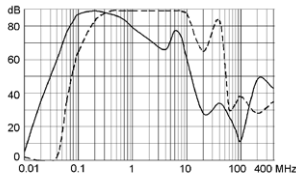


**Attenuation Loss**

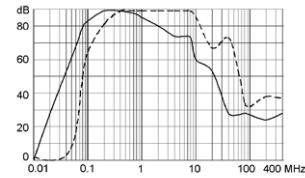
Industrial version

--- 50Ω differential mode    \_\_\_ 50Ω common mode

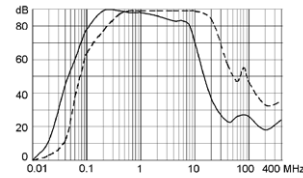
8A (FMBC-0927-0810)



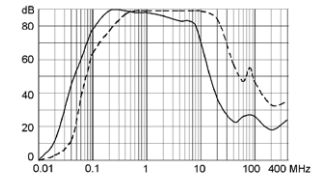
12A (FMBC-0927-1210)



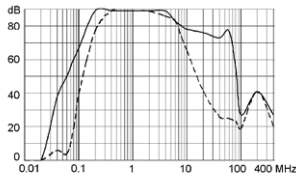
16A (FMBC-0931-1610)



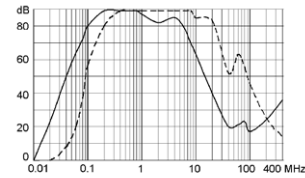
25A (FMBC-0932-2510)



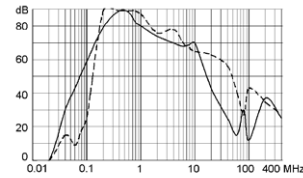
25A (FMBC-0932-2510L)



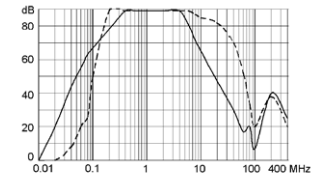
36A (FMBC-0938-3610)



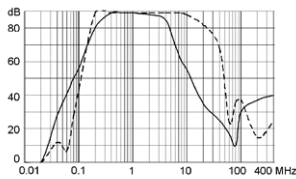
36A (FMBC-0940-3610L)



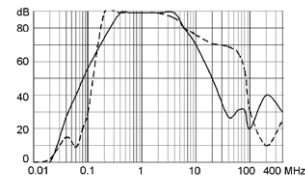
50A (FMBC-0938-5010)



50A (FMBC-0938-5010L)



64A (FMBC-0937-6410)



**All Variants**

Bemessungsstrom @ $T_u$ 40°C (75°C) [A]	Characteristic	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm <sup>2</sup> 2]	Housings	Order Number
8 (5.6)	Excellent attenuation	10.6	55	0.5	1.7 kg	4	27-3	<a href="#">FMBC-0927-0810</a>
12 (6.6)	Excellent attenuation	10	23	0.5	1.9 kg	4	27-3	<a href="#">FMBC-0927-1210</a>
16 (8.8)	Excellent attenuation	14.6	19	0.5	2.28 kg	4	31-3	<a href="#">FMBC-0931-1610</a>
25 (13)	High attenuation	20.7	11	0.5	3.5 kg	6	32-7	<a href="#">FMBC-0932-2510L</a>
25 (16)	Excellent attenuation	18.8	10	0.5	3.4 kg	6	32-7	<a href="#">FMBC-0932-2510</a>
36 (19)	High attenuation	18.3	4.7	0.5	6.5 kg	6	40-3	<a href="#">FMBC-0940-3610L</a>
36 (19.5)	Excellent attenuation	29.2	7.5	0.5	7.4 kg	6	38-3	<a href="#">FMBC-0938-3610</a>
50 (27)	High attenuation	25.9	3.45	1.2	7 kg	10	38-3	<a href="#">FMBC-0938-5010L</a>
50 (27)	Excellent attenuation	30.3	4.0	1.2	7 kg	10	38-3	<a href="#">FMBC-0938-5010</a>
64 (36)	Excellent attenuation	47.9	3.9	1.2	7.45 kg	25	37-3	<a href="#">FMBC-0937-6410</a>

Most Popular.

Bemessungsstrom @ Tu 40°C (75°C) [A]	Characteristic	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housings	Order Number
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Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

- 1) Nominal leakage current acc. to IEC60950 - 5.2.5. under normal operating conditions. Note: worst case leakage current acc. to IEC60950 - Annex G4 (situation with two interrupted lines) can be much higher.
- 2) Maximum conductor cross section (wire gauge) to be used; a comparative table for AWG and mm<sup>2</sup> values can be found in the general product information [www.schurter.com/emc\\_info](http://www.schurter.com/emc_info)

<b>Packaging unit</b>	1 Pcs
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