FMBC BOOK STYLE

Compact 2-stage bookform filter

FMBC BOOK STYLE 2-step filter
reclining

See below:
Approvals and Compliances

Description

- Very compact and slim filter design

Applications

- Voltage rating 480 VAC for world wide acceptance
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
- Suitable for use in equipment according to IEC/UL 60950

Weblinks

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

Technical Data

Rated Current	10 - 115 A @ Ta 40 °C
Rated voltage	480 VAC 50/60 Hz
Approval for	10 - 115 A @ Ta 40 °C / 480 VAC; 50 Hz
Overload Current	1.5 x Ir
Leakage Current	industrial < 5 mA (440 V / 50 Hz)
Dielectric Strength	480 VAC: 2.25 kVDC between L-L 3 kVDC between L-PE Test voltage (2 sec)
Number of Filter Stages	2-stage
Weight	1.9 - 7.25 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis, from top
Terminal	Screw clamps / flexible wires
Operating Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 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	> 200'000 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: FMBC BOOK STYLE

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40004666
c UL us	UL Approvals	UL	UL 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

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 technology equipment.

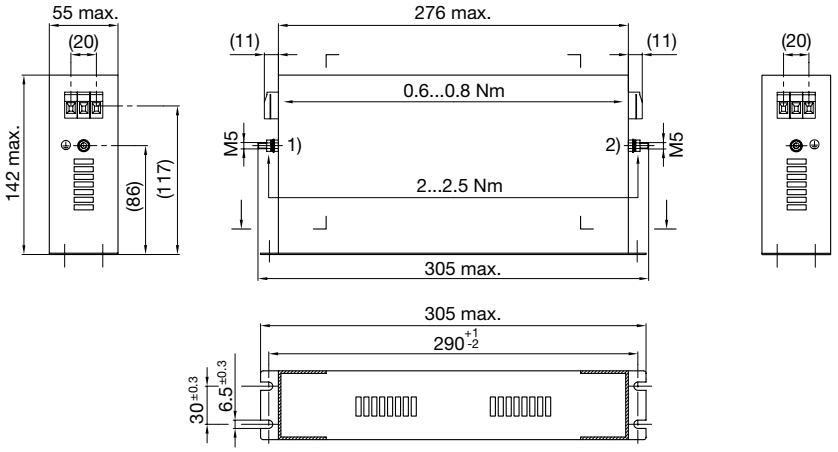
Compliances

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	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.

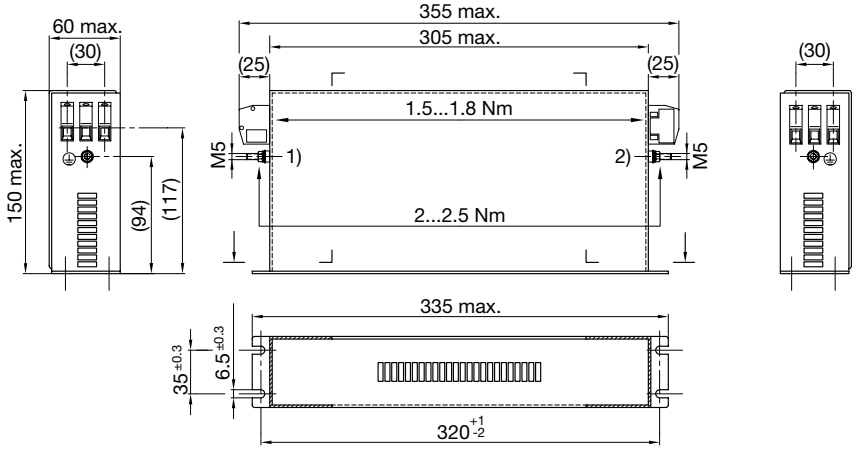
Dimension [mm]

Case 58

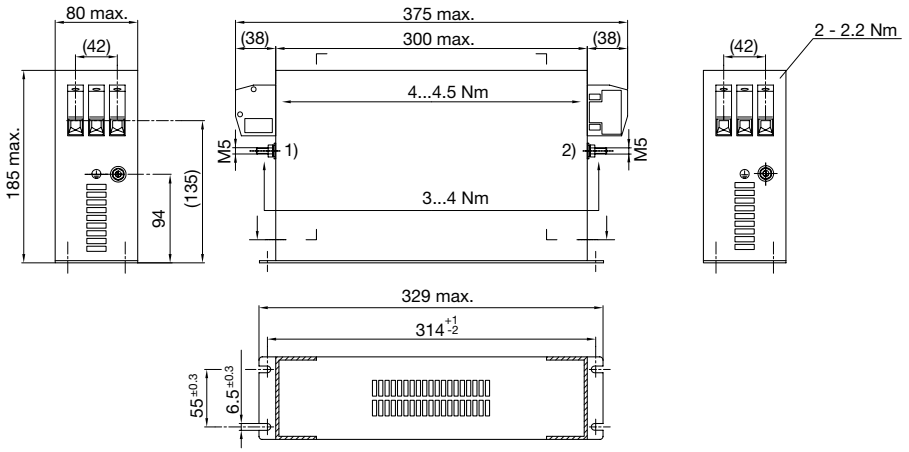


1) Line
2) Load

Case 60



Case 62



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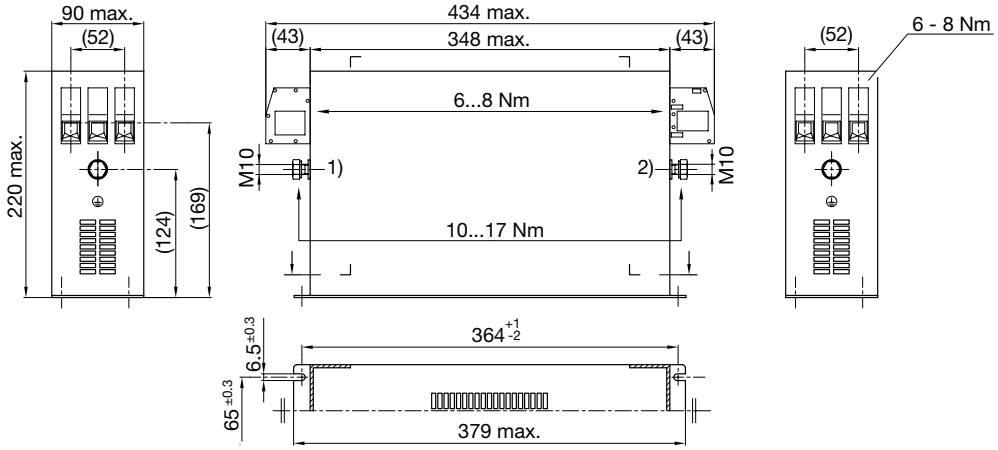
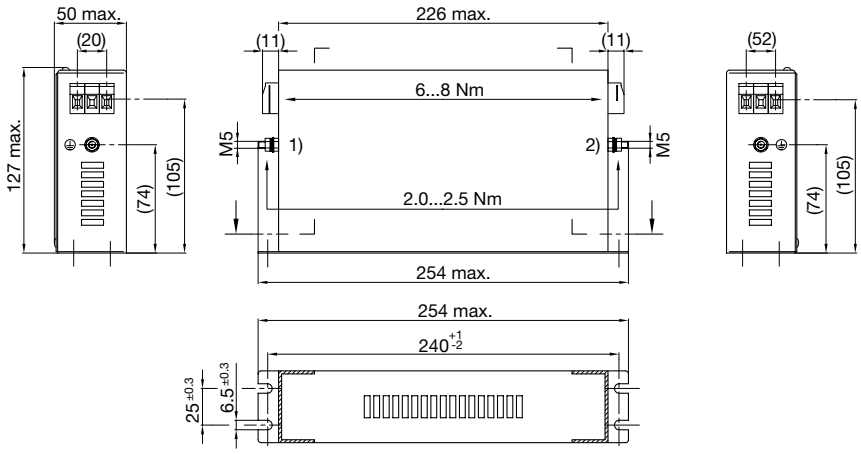
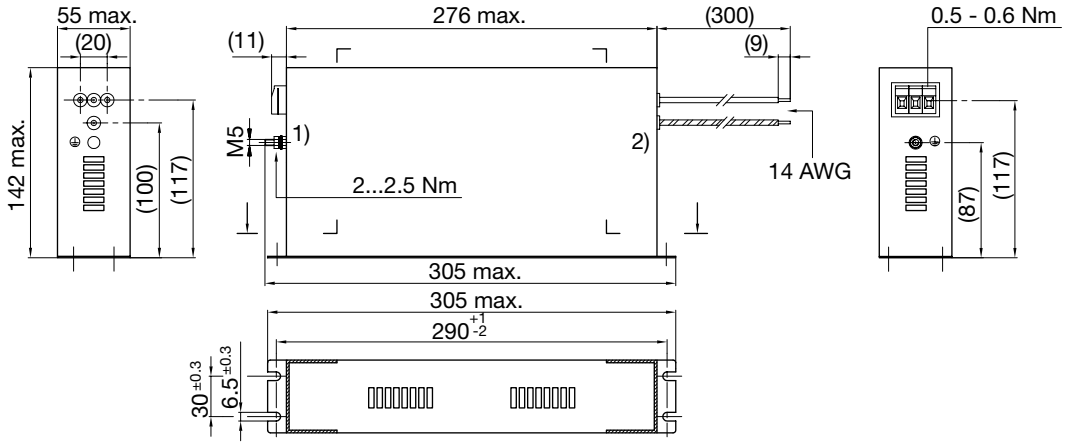


1) Line
2) Load

Case 67



Case 58C



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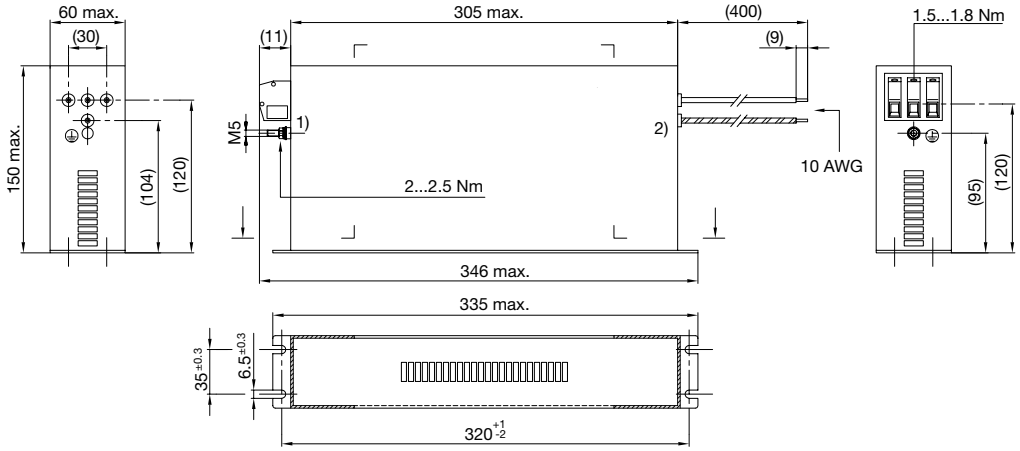
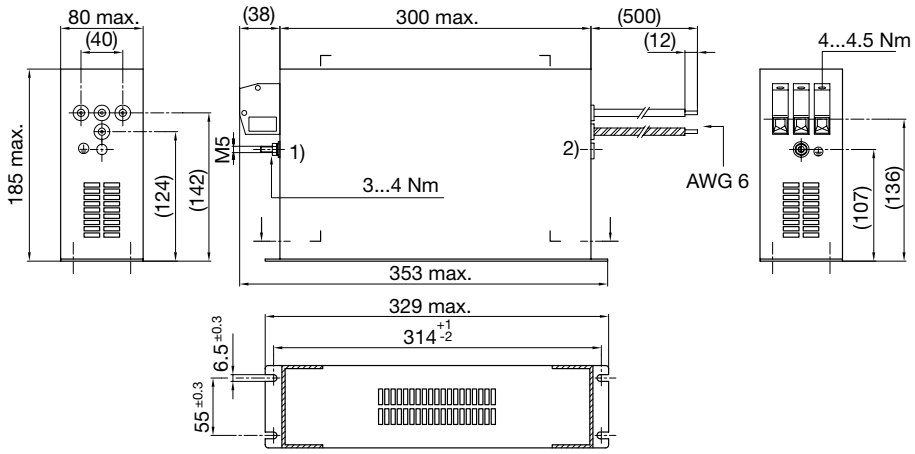
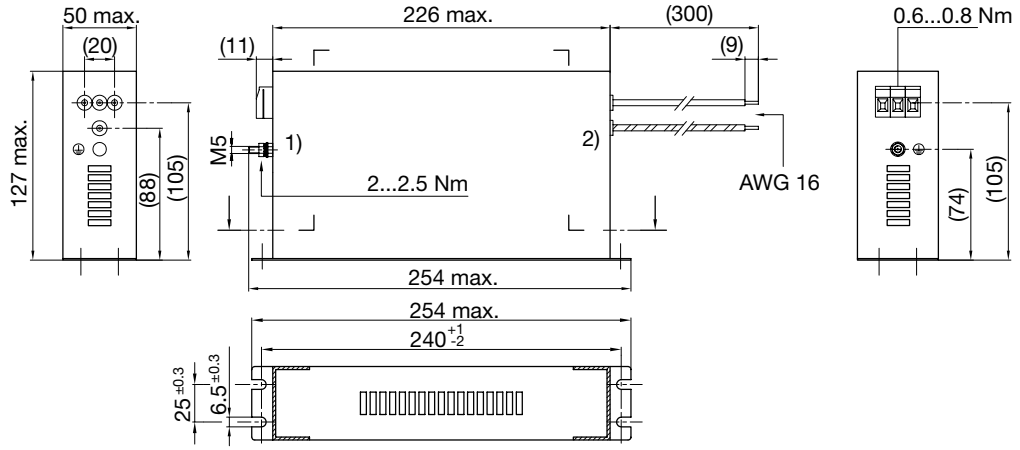


1) Line
2) Load

Case 62C



Case 67C

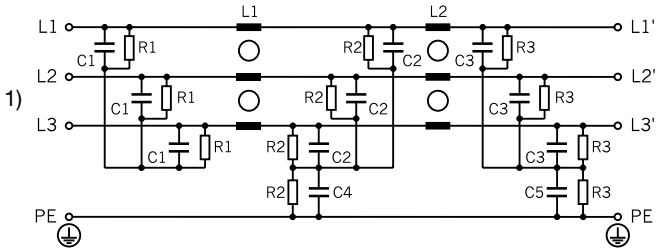


1) Line
2) Load

Technical data to the filter components

Rated Current [A]	Terminal	L1 [mH]	L2 [mH]	C1 [µF]	C2 [µF]	C3 [nF]	C4 [nF]	C5 [µF]	R1 [MΩ]	R2 [MΩ]	R3 [MΩ]
10	Screw clamps / flexible wires	3	1.5	1.5	1.0	1.5	-	1.5	-	-	1
115	Screw clamps / flexible wires	0.7	0.2	2.2	2.2	2.2	100	2.2	-	1	1
20	Screw clamps / flexible wires	1.8	1.2	2.2	1.5	2.2	-	1.5	-	-	1
36	Screw clamps / flexible wires	1.5	0.5	2.2	2.2	2.2	-	2.2	-	-	1
66	Screw clamps / flexible wires	0.65	0.45	2.2	2.2	2.2	100	2.2	-	1	1

Diagrams



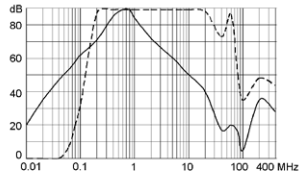
1) Line

Attenuation Loss

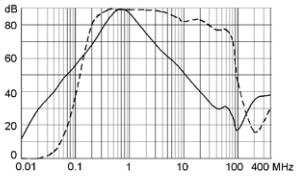
- - - - 50Ω differential mode _____ 50Ω common mode

Industrial version

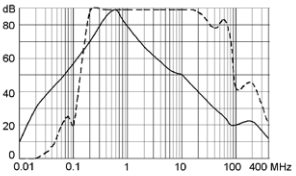
10 A



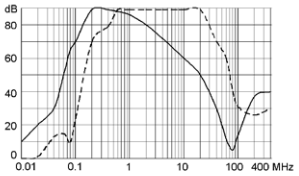
20 A



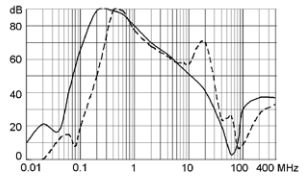
36 A



66 A



115 A



All Variants

Rated Current [A]	Terminal	Leakage Current [mA] @ 440V, 60Hz 1)	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Weight [kg]	Clamps [mm2]	Housings	Order Number
10	Screw clamps / flexible wires	4.6	9.45	31.5	1.65 kg	4	67C	FMBC-0967-1060
10	Screw clamps / flexible wires	4.6	9.45	31.5	1.9 kg	4	67	FMBC-0967-1010
115	Screw clamps / flexible wires	7.1	48	1.33	7.25 kg	50	64	FMBC-0964-H110
20	Screw clamps / flexible wires	4.6	17.5	14.6	2.15 kg	4	58	FMBC-0958-2010
20	Screw clamps / flexible wires	4.6	17.5	14.6	2.3 kg	4	58C	FMBC-0958-2060
36	Screw clamps / flexible wires	6.7	25.7	6.6	2.9 kg	10	60	FMBC-0960-3610
36	Screw clamps / flexible wires	6.7	25.7	6.6	3.1 kg	10	60C	FMBC-0960-3660
66	Screw clamps / flexible wires	7.1	43	3.3	4.4 kg	25	62	FMBC-0962-6610
66	Screw clamps / flexible wires	7.1	43	3.3	4.41 kg	25	62C	FMBC-0962-6660

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.

Packaging unit 1 Pcs

27.02.2019