

Ultra compact and efficient 2-stage filter in ECO design for 3-phase systems



See below:

**Approvals and Compliances**

**Description**

- High attenuation value

**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 62368-1

**Weblinks**

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

**Technical Data**

Rated Current	10 - 115A
Rated voltage	480VAC, 50/60 Hz
Approval for	10 - 115A @ Ta 40 °C / 480VAC; 50/60Hz
Overload Current	1.5 x Ir for 1 minute, per hour
Leakage Current	standard < 0.5mA (440V / 50Hz)
Dielectric Strength	480VAC: > 2.25kVDC between L-L > 3kVDC between L-PE
Number of Filter Stages	2-stage
Weight	1.1 - 5kg
Material: Housing	Aluminum
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis, upright or lengthwise
Terminal	Bolts and nuts
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	> 200'000h 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: FMBC ECO

Approval Logo	Certificates	Certification Body	Description
	<a href="#">VDE Approvals</a>	VDE	Certificate Number: 40023521
	<a href="#">UL Approvals</a>	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 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

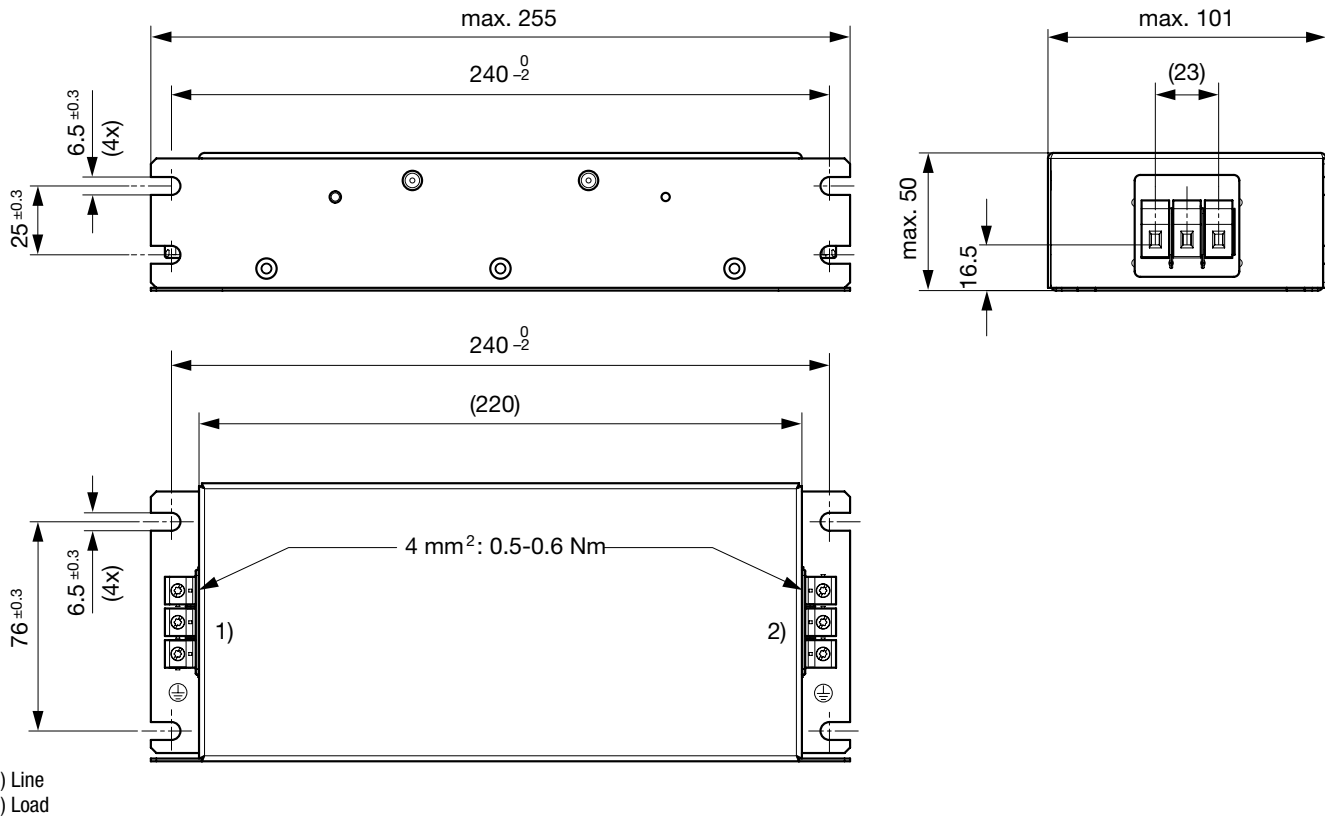
**Compliances**

The product complies with following Guide Lines

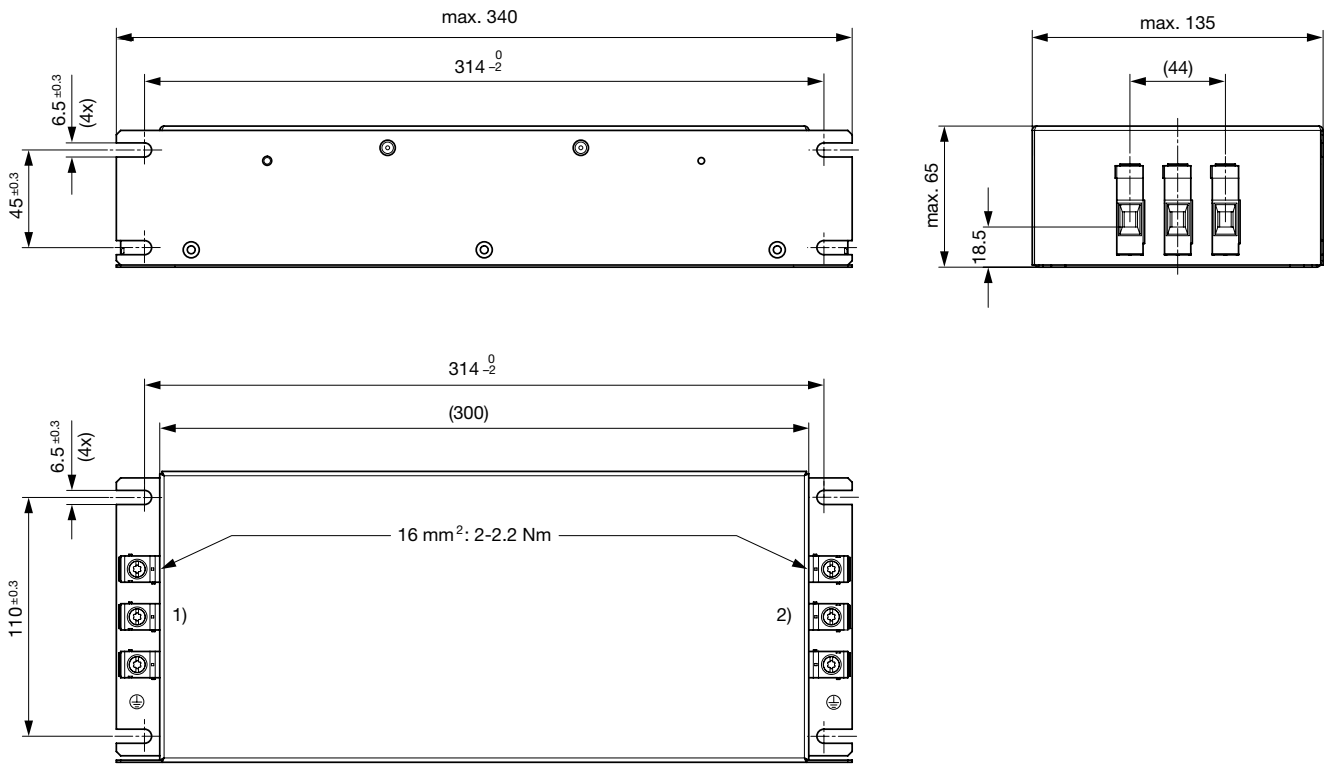
Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	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	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 94

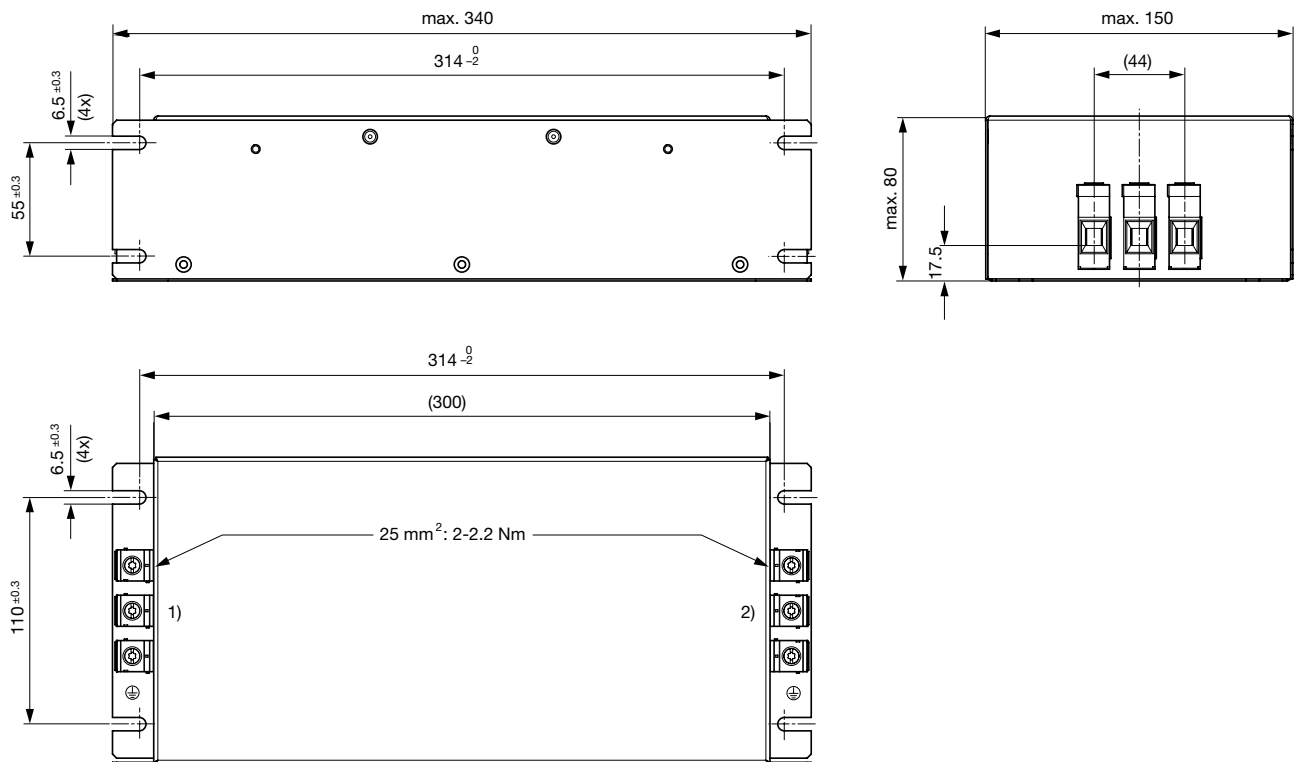


Case 95



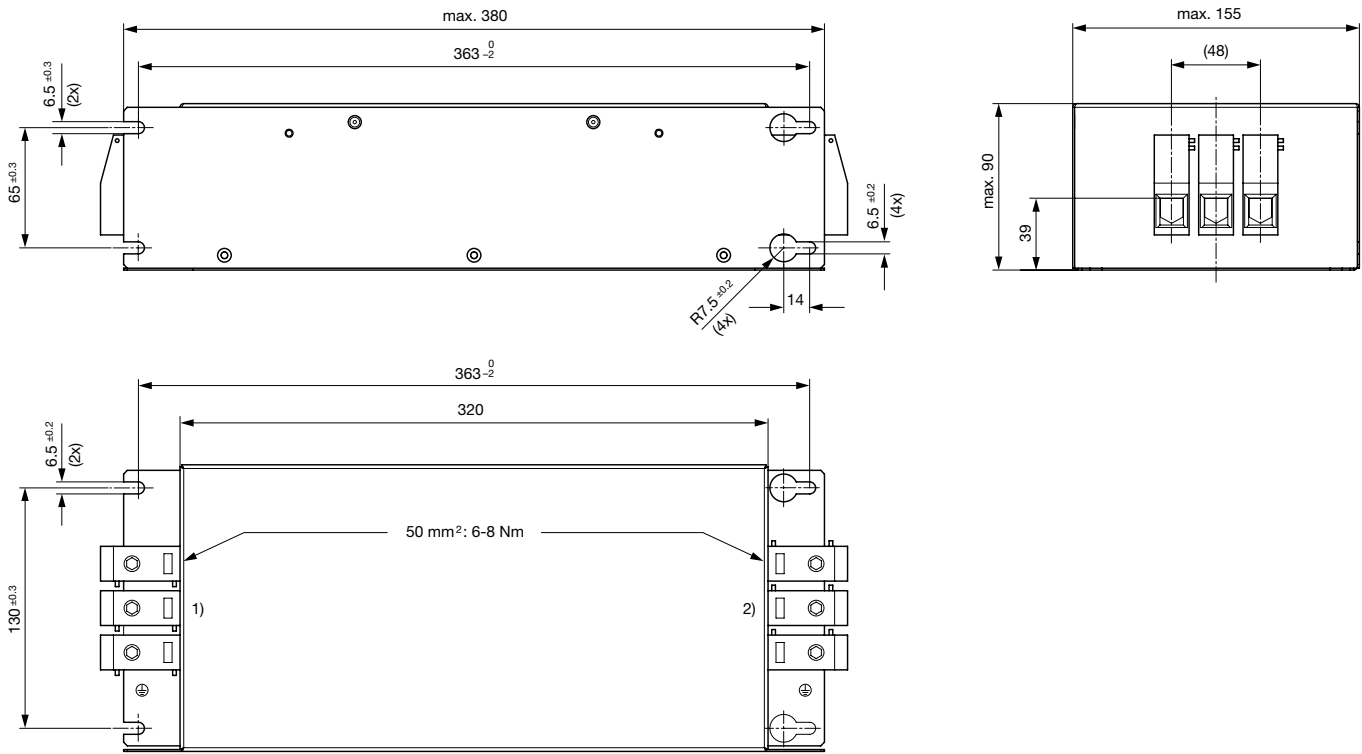
- 1) Line
- 2) Load

Case 96



- 1) Line
- 2) Load

Case 97

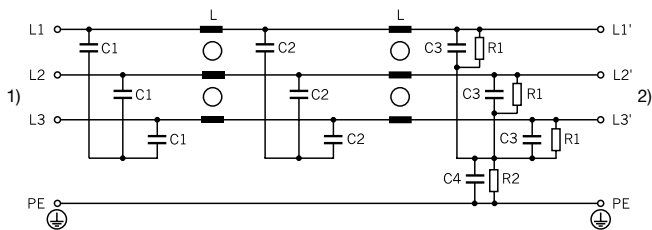


- 1) Line
- 2) Load

Technical data to the filter components

Rated Current [A]	L [mH]	C1 [µF]	C2 [µF]	C3 [µF]	C4 [nF]	R1 [MΩ]	R2 [MΩ]	Netzfilter Aus-
10	2.3	1	1	1	10	1	1	Indus-
20	1.5	1	1	1	10	1	1	Indus-
36	0.9	1	1	2.2	47	1	1	Indus-
50	0.45	1	1	2.2	47	1	1	Indus-
66	0.45	1	1	2.2	47	1	1	Indus-
80	0.32	1	1	2.2	47	1	1	Indus-
115	0.24	1	2.2	2.2	100	1	1	Indus-

Diagrams



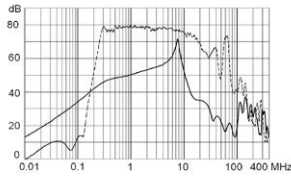
- 1) Line
- 2) Load

**Attenuation Loss**

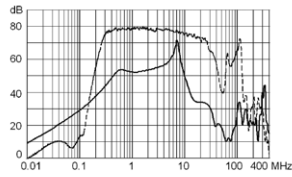
--- 50Ω differential mode \_\_\_\_ 50Ω common mode

Industrial version

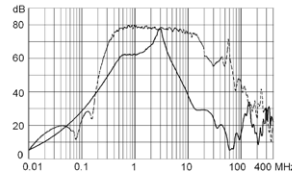
10A (FMBC-0994-1000)



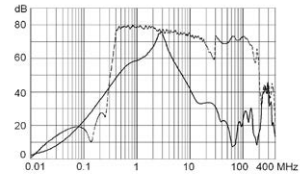
20A (FMBC-0994-2000)



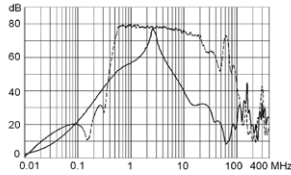
36A (FMBC-0995-3600)



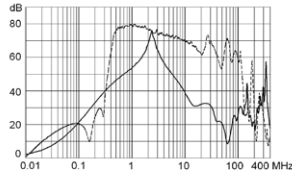
50A (FMBC-0996-5000)



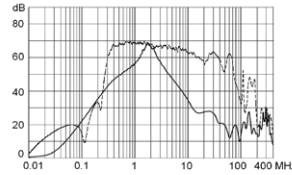
66A (FMBC-0996-6600)



80A (FMBC-0996-8000)



115A (FMBC-0997-H115)



**All Variants**

Rated Current @ Ta 50°C (75°C) [A]	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V,	Weight [kg]	Screw clamps	Housings	Packaging unit [PCS]	Order Number
10	4	37	0.04	1.1 kg	4	94	1	FMBC-0994-1000
20	9	20	0.04	1.6 kg	4	94	1	FMBC-0994-2000
36	5	3.5	0.2	2.2 kg	16	95	1	FMBC-0995-3600
50	20	7.5	0.2	2.7 kg	16	95	1	FMBC-0995-5000
66	22	4.5	0.2	3.4 kg	25	96	1	FMBC-0996-6600
80	24	3.5	0.2	3.4 kg	25	96	1	FMBC-0996-8000
115	36	2.5	0.4	5 kg	50	97	1	FMBC-0997-H115

Most Popular.

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

1) Leakage current according IEC 60939-1

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 <https://www.schurter.com/en/FAQ#10>

**Packaging unit** 1 Pcs

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schurter:

[FMBC-0995-3600](#) [FMBC-0994-1000](#) [FMBC-0994-2000](#) [FMBC-0995-5000](#) [FMBC-0996-6600](#) [FMBC-0996-8000](#)  
[FMBC-0997-H115](#)