2-stage filter for 3-phase systems with low leakage current



	See below: Approvals and Compliances
Description - Terminals for three phases and ground	 Applications Suitable for applications with RCDs Protection against interference voltage from the mains Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
	Weblinks pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Detailed request for product, Microsite
Technical Data	

Rated Current	7 - 180A
Rated voltage	520 VAC, 50/60 Hz
Approval for	7 - 180A @ 50 °C / 520VAC; 50/60Hz
Overload Current	1.5 x lr for 1 minute, per hour
Dielectric Strength	> 2.25 kVDC between L-L > 2.7 kVDC between L-PE
	Test voltage 2 sec
Number of Filter Stages	2-stage
Weight	0.75 - 9.4 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis
Terminal	Screw clamps
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 LL

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40040983
c Su s	UL Approvals	UL	UL File Number: E72928
Product standard Product standards th	-		
Organization	Design	Standard	Description
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
(UL)	Designed according to	UL 1283	Electromagnetic interference filters

Application standards

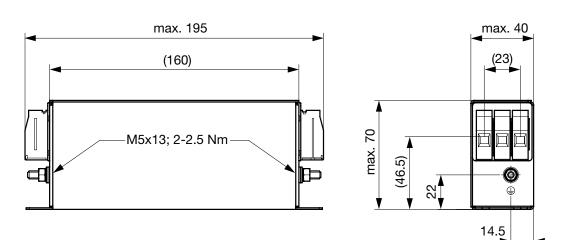
Application standards where the product can be used

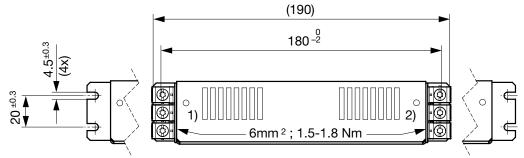
Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
Compliances			
The product comp	blies with following Guide Lines		

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.
UK CA	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	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 1U

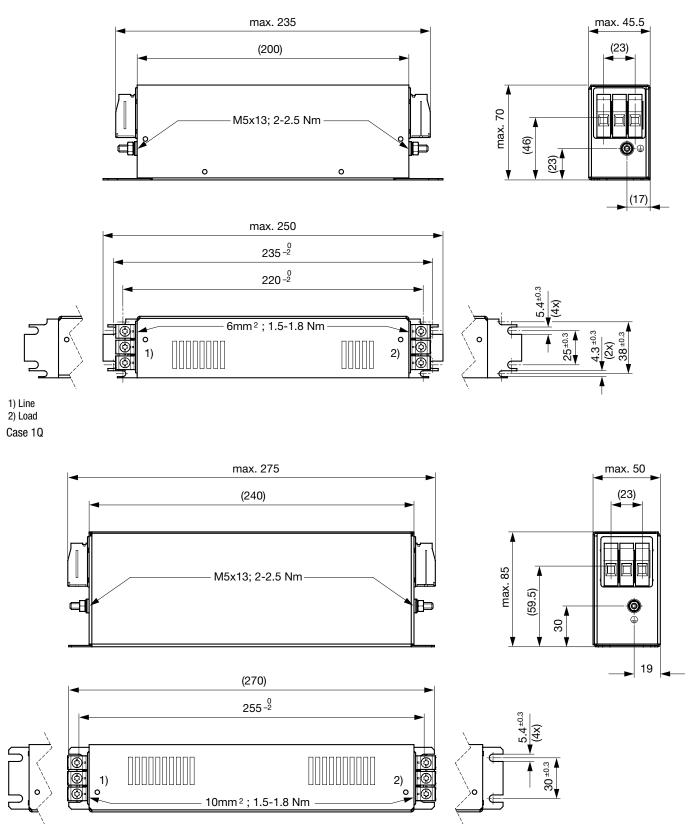






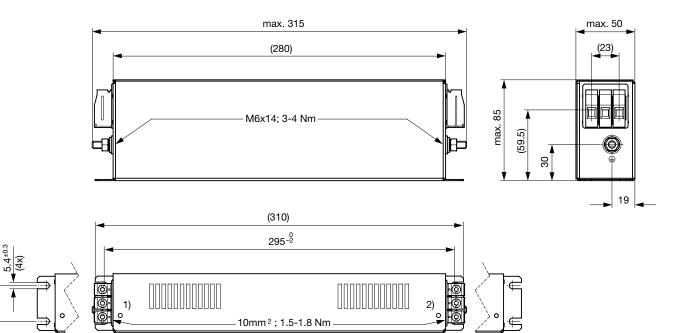
3-Phase AC Filters / DC Filters https://www.schurter.com /PG80

Case 1C



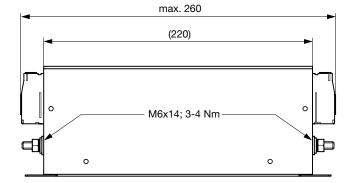
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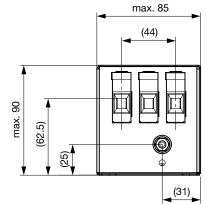
Case 1R

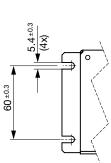


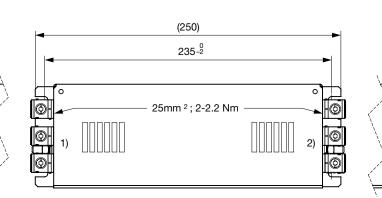
1) Line 2) Load Case 1S

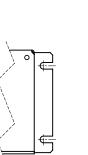
30±^{0.3}







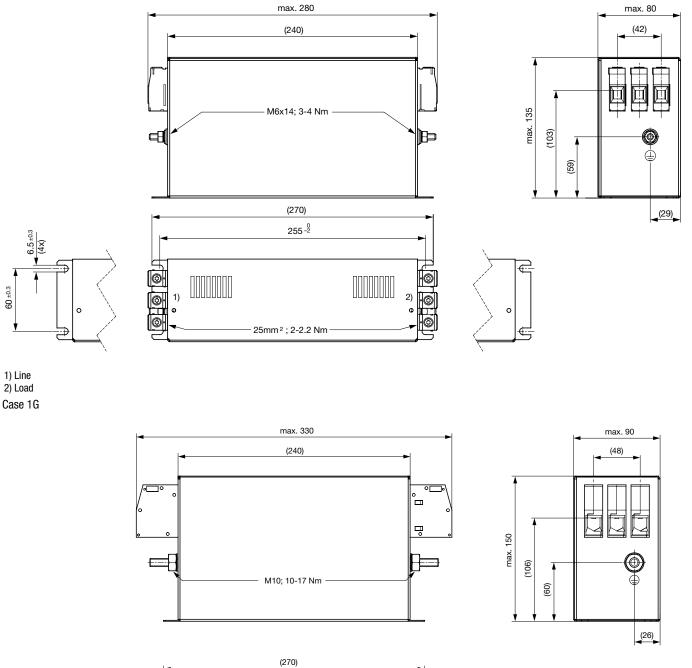


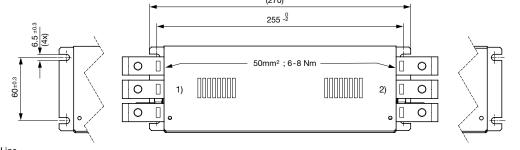


1) Line 2) Load

Case 1F

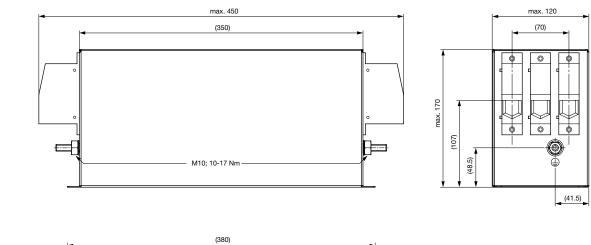
60 ±0.3

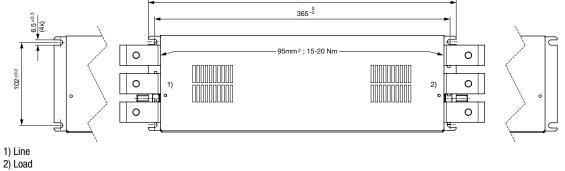




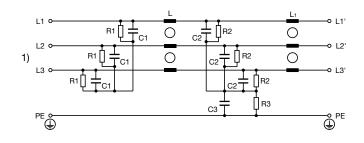
1) Line 2) Load

Case 1V





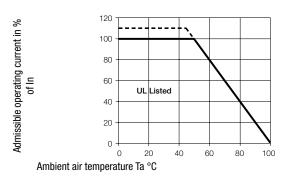
Diagrams



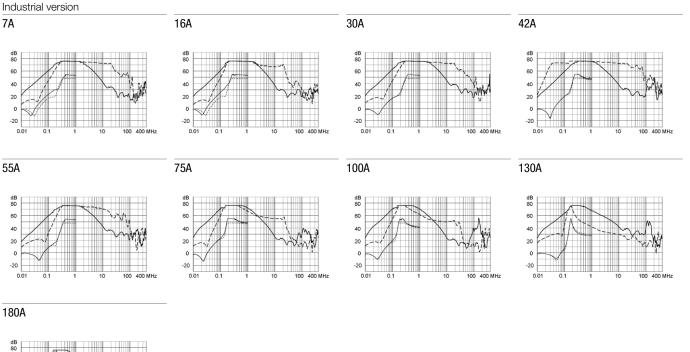
1) Line

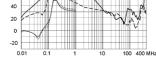
Derating Curves

Permissible Working Current as a Function of Ambient Temperature



 Attenuation Loss
 0.1/100Ω
 differential mode
 ---- 50Ω
 differential mode
 50Ω
 common mode





All Variants

60

Rated Current @ Ta 50°C (40°C) [A]	Rated Voltage [VAC]	Powerloss @ 25°C, 50Hz [W]	Leakage Current @ 400VAC, 50Hz	Weight [kg]	Screw clamps [mm2] 2)	Housing	Packaging unit	Order Number
7 (7.7)	520	1.5	4.3	0.75 kg	6	1U	3	FMBC-R91U-0712
16 (17.5)	520	5.4	4.3	1.2 kg	6	10	3	FMBC-R91C-1612
30 (32.9)	520	6.6	4.3	1.8 kg	10	1Q	4	FMBC-R91Q-3012
42 (46)	520	10.7	4.3	1.8 kg	10	1R	3	FMBC-R91R-4212
55 (60.2)	520	13.3	4.3	2.4 kg	25	1S	2	FMBC-R91S-5512
75 (82.2)	520	19.6	17.5	4.1 kg	25	1F	1	FMBC-R91F-7512
100 (109.5)	520	26.3	17.5	5.4 kg	50	1G	1	FMBC-R91G-J012
130 (142.4)	520	10	19.3	4.6 kg	50	1G	1	FMBC-R91G-J312
180 (197.1)	520	31	19.3	9.4 kg	95	1V	1	FMBC-R91V-J812

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 mm² values can be found in the general product information https://www.schurter.com/en/FAQ#10

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