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

2-stage filter for 3-phase systems

- Terminals for three phases and ground





FMBC NEO

See below: Approvals and Compliances

Applications

- Voltage rating 480 and 520 VAC for world wide acceptance
- Protection against interference voltage from the mains
- 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

Description

Rated Current	7 - 180A
Rated voltage	480/520 VAC, 50/60 Hz
Approval for	7 - 180 A @ 50 (75) °C / 480/520 VAC; 50/60 Hz
Overload Current	1.5 x lr for 1 minute, per hour
Dielectric Strength	480/520 VAC:
	> 2.25 kVDC between L-L
	> 2.75 kVDC between L-PE
	Test voltage 2 sec
Number of Filter Stages	2-stage
Weight	0.8 - 8kg
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 NEO	
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Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40029853
c FL [®] 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
(YL)	Designed according to	UL 1283	Electromagnetic interference filters

Application standards

Application standards where the product can be used

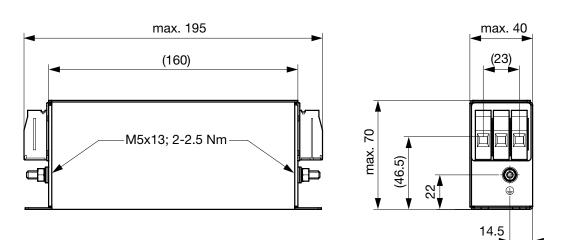
Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
Compliances			

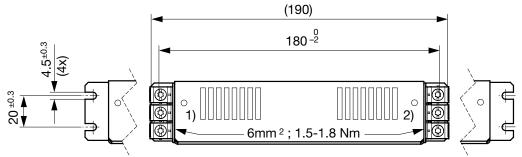
The product complies with following Guide Lines

s with the applicable
ommunity legislation on 2008.
plies with the applicable of Regulation (EC)
5/863
n in force since 1 March
n the Registration, cals 1 (abbreviated as
20 pli 0 5/ n

Dimension [mm]

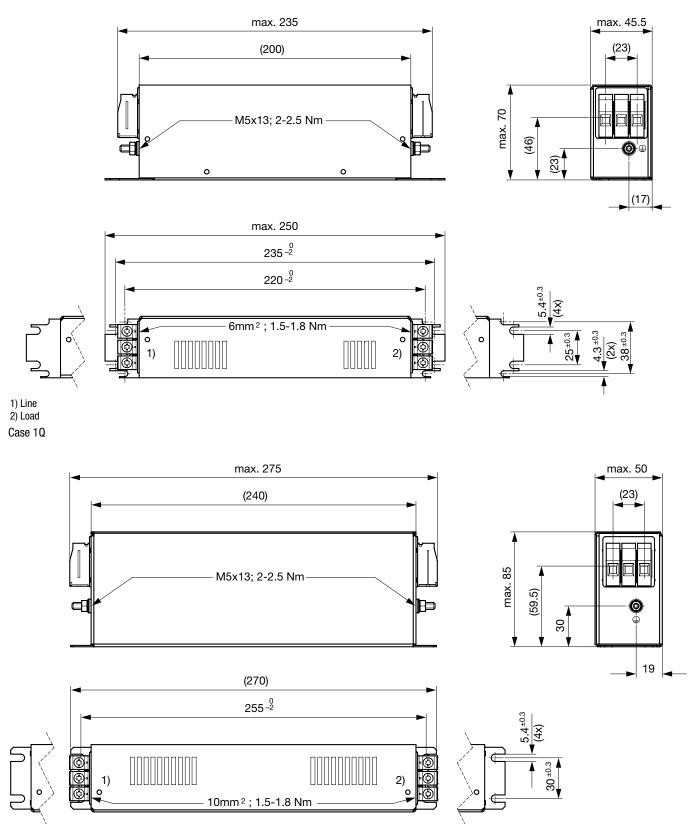
Case 1U





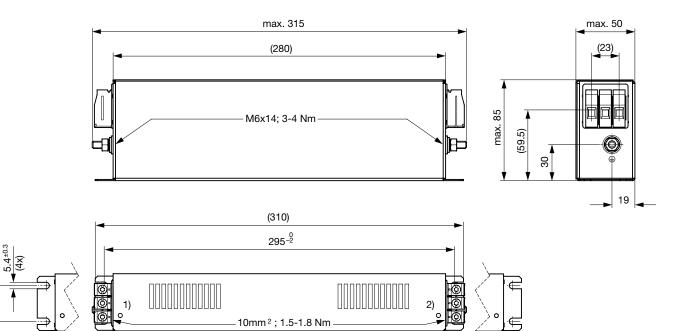
1) Line 2) Load

Case 1C



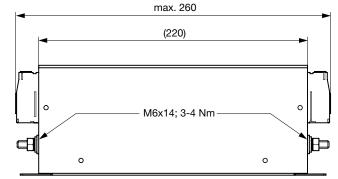
1) Line 2) Load

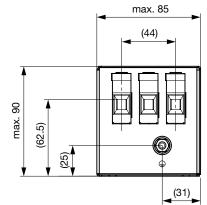
Case 1R

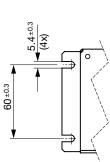


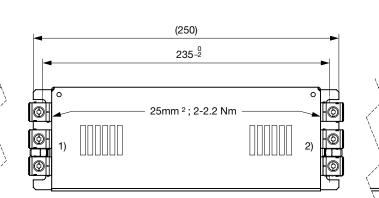
1) Line 2) Load Case 1S

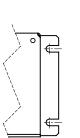
30±^{0.3}





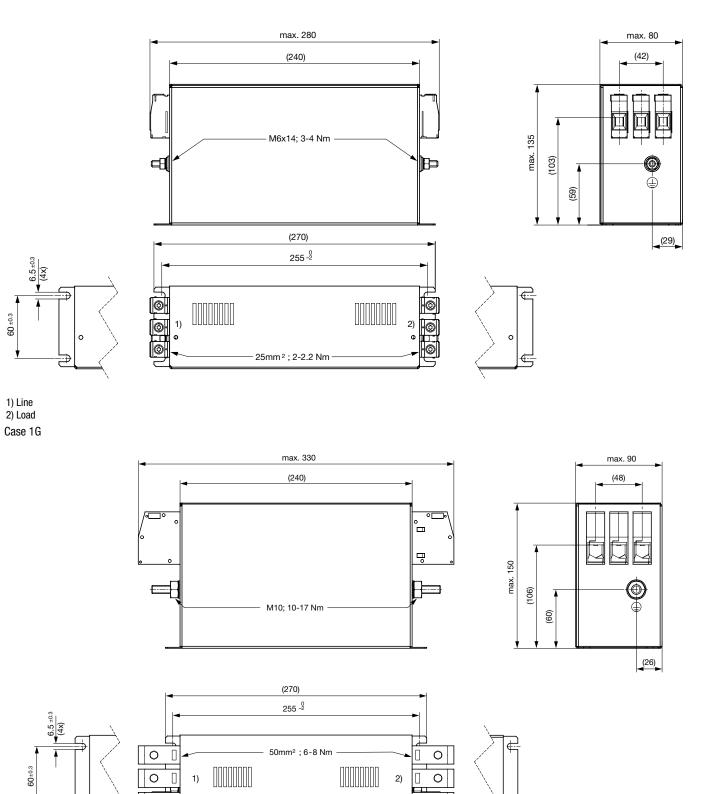






1) Line 2) Load

Case 1F



1) Line 2) Load 0

θ

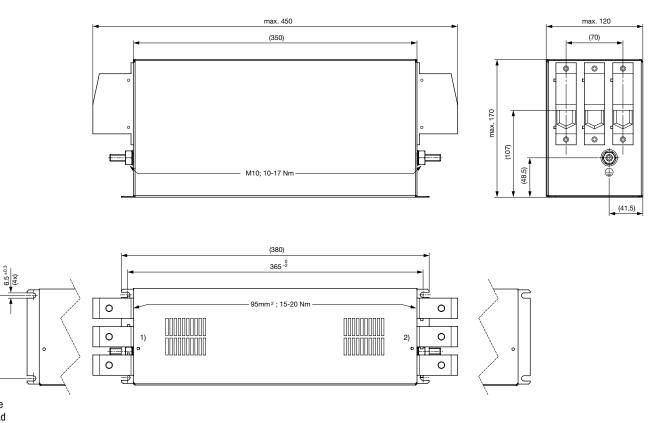
0

0

€

θ

Case 1V



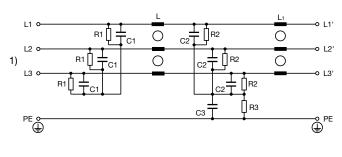
1) Line 2) Load

 102 ± 0.3

Technical data to the filter components

Rated Current @ Ta 50°C (75°C) [A]	L (mH)	L2 [µH]	C1 [µF]	C2 [µF]	C3 [µF]	R1 [M Ω]	R2 [M Ω]	R3 [M Ω]
7 (4.7)	2.7	5	3.3	3.3	3.3	-	1	1
16 (12)	1.9	10	6.6	3.3	3.3	1	1	1
30 (21)	1.9	10	6.8	3.3	3.3	1	1	1
42 (31)	1.3	10	9.9	3.3	3.3	1	1	1
55 (49)	1.8	13	10	3.3	3.3	1	1	1
75 (47)	1.2	13	9.9	3.3	3.3	1	1	1
100 (64)	1.2	13	9.9	3.3	3.3	1	1	1
130 (92)	0.7	26	9.9	3.3	3.3	1	1	1
180 (135)	0.4	31	10	3.3	3.3	1	1	1
7 (4.7)	2.7	5	3.3	3.3	3.3	-	1	1
16 (12)	1.9	10	6.6	3.3	3.3	1	1	1
30 (21)	1.9	10	6.8	3.3	3.3	1	1	1
42 (31)	1.3	10	9.9	3.3	3.3	1	1	1
55 (49)	1.8	13	10	3.3	3.3	1	1	1
75 (47)	1.2	13	9.9	3.3	3.3	1	1	1
100 (64)	1.2	13	9.9	3.3	3.3	1	1	1
130 (92)	0.7	26	9.9	3.3	3.3	1	1	1
180 (135)	0.4	31	10	3.3	3.3	1	1	1

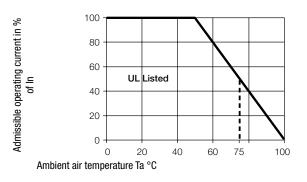
Diagrams

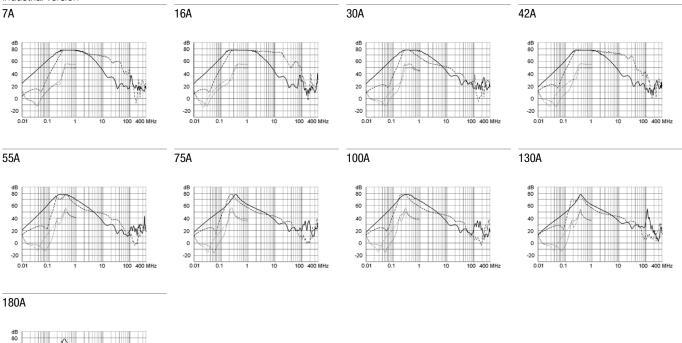


1) Line

Derating Curves

Permissible Working Current as a Function of Ambient Temperature





60 40 20 -20



All Variants

Rated Current @ Ta 50°C (75°C) [A]	Rated Voltage [VAC]	Tripped Power Dissipation [W]	Leakage Cur- rent [mA] @ 440V, 60Hz 1)	Contact Resistance [m Ω]	Weight [kg]	Screw clamps [mm2] 2)	Housing	Packaging unit	Order Number
7 (4.7)	480	1.4	10.2	9.2	0.8 kg	6	1U	3	FMBC-A91U-0710
16 (12)	480	4.9	10.2	6.3	1.1 kg	6	10	3	FMBC-A91C-1610
30 (21)	480	6.8	10.2	2.5	1.5 kg	10	1Q	4	FMBC-A91Q-3010
42 (31)	480	13.8	10.2	2.6	1.9 kg	10	1R	3	FMBC-A91R-4210
55 (49)	480	12.7	10.2	1.4	2.5 kg	25	1S	2	FMBC-A91S-5510
75 (47)	480	16.9	10.2	1	3.8 kg	25	1F	1	FMBC-A91F-7510
100 (64)	480	24	10.2	0.8	5 kg	50	1G	1	FMBC-A91G-J010
130 (92)	480	30.5	10.2	0.6	4.8 kg	50	1G	1	FMBC-A91G-J310
180 (135)	480	19.5	10.2	0.2	8 kg	95	1V	1	FMBC-A91V-J810
7 (4.7)	520	1.4	10.2	9.2	0.8 kg	6	10	3	FMBC-A91U-0712
16 (12)	520	4.9	10.2	6.3	1.1 kg	6	10	3	FMBC-A91C-1612
30 (21)	520	6.8	10.2	2.5	1.5 kg	10	1Q	4	FMBC-A91Q-3012
42 (31)	520	13.8	10.2	2.6	1.9 kg	10	1R	3	FMBC-A91R-4212
55 (49)	520	12.7	10.2	1.4	2.5 kg	25	1S	2	FMBC-A91S-5512
75 (47)	520	16.9	10.2	1	3.8 kg	25	1F	1	FMBC-A91F-7512
100 (64)	520	24	10.2	0.8	5 kg	50	1G	1	FMBC-A91G-J012
130 (92)	520	30.5	10.2	0.6	4.8 kg	50	1G	1	FMBC-A91G-J312
180 (135)	520	19.5	10.2	0.2	8 kg	95	1V	1	FMBC-A91V-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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