Ultra compact and efficient 1-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

References

We recommend for new applications the type FMAC NEO

Weblinks

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

Technical Data	
Rated Current	16 - 150A @ Ta 40°C
Rated voltage	480 VAC, 50/60 Hz
Approval for	16 - 150A @ Ta 40 °C / 480VAC; 50/60Hz
Overload Current	1.5 x lr for 1 minute, per hour
Leakage Current	< 15 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	1-stage
Weight	1 - 7kg
Material: Housing	Aluminum
Sealing Compound	UL 94V-0

Screw-on mounting on chassis, upright / lengthwise
Bolts and nuts
-25 °C to 100 °C
25/100/21 acc. to IEC 60068-1
IP20 acc. to IEC 60529
Suitable for appliances with protection class I acc. to IEC 61140
> 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: FMAC ECO

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40028851
c SU ° _{IIS}	UL Approvals	UL	UR File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
(IL)	Designed according to	UL 1283	Passive filters for suppressing electromagnetic interference

Application standards

Application standards where the product can be used

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

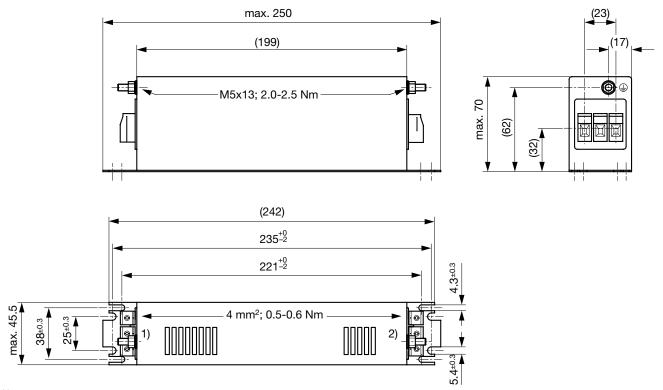
Compliances

The product complies with following Guide Lines

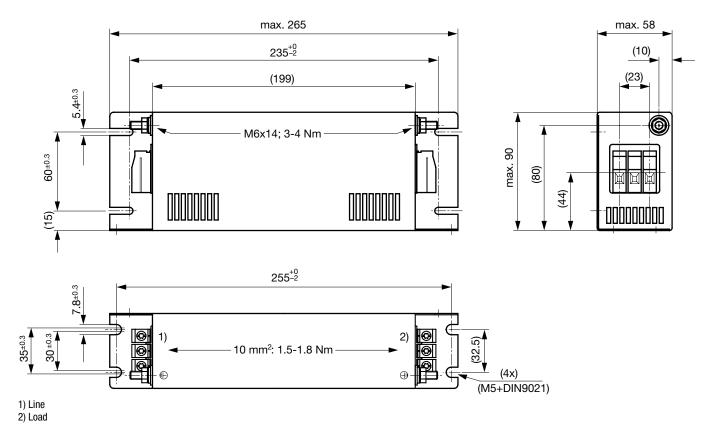
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration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

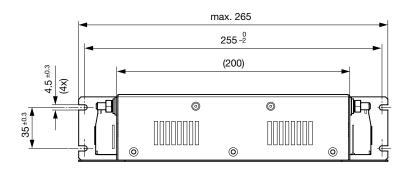
Dimension [mm]

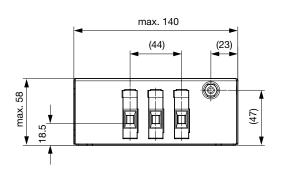
Case 1C

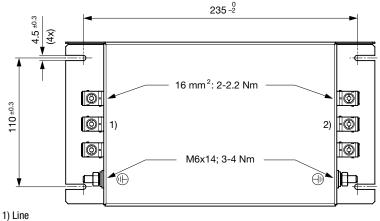


Case 1D-10





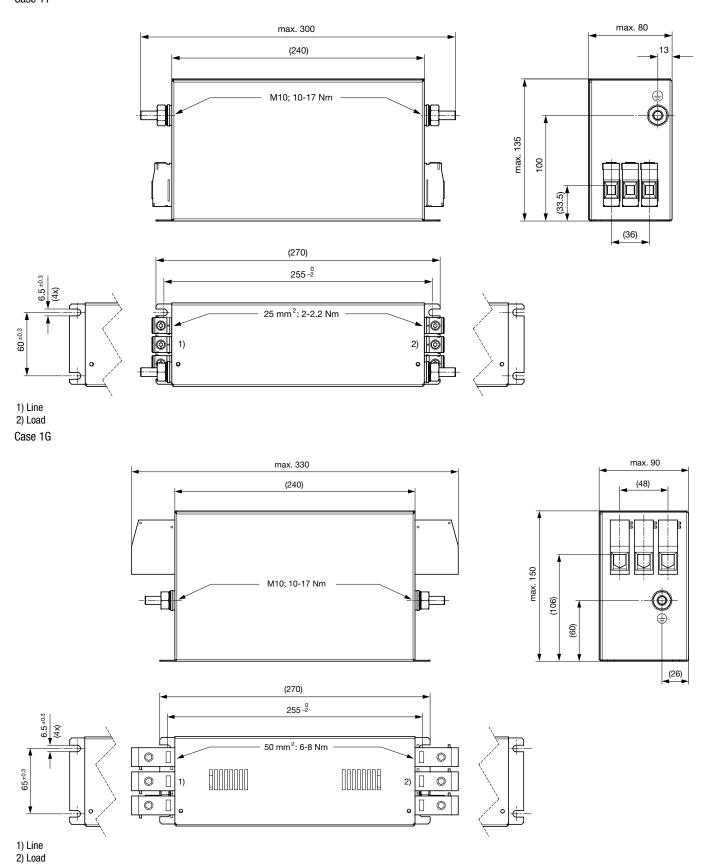




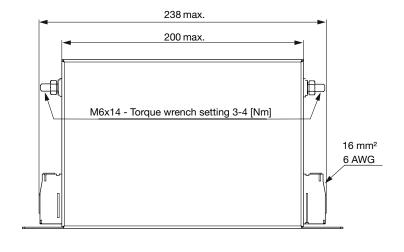
Case 1E

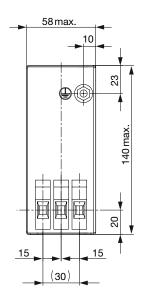
2) Load

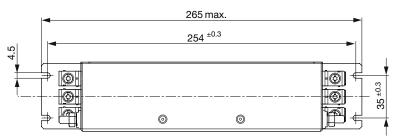
Case 1T



Case SF



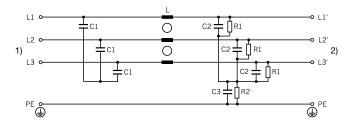




Technical data to the filter components

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Rated Current [A]	L [mH]	C1 [µF]	C2 [µF]	C3 [µF]	R1 [MΩ]	R2 [MΩ]	Filter- Type
110	0.55	6.6	6.6	3.3	1	1	Indus-
150	0.48	6.6	6.6	3.3	1	1	Indus-
16	0.55	2.2	2.2	3.3	1	1	Indus-
25	0.45	2.2	2.2	3.3	1	1	Indus-
36	0.57	2.2	2.2	3.3	1	1	Indus-
50	0.65	4.7	3.3	3.3	1	1	Indus-
55	0.75	4.7	3.3	3.3	1	1	Indus-
64	0.55	4.7	3.3	3.3	1	1	Indus-
80	0.55	4.7	4.7	3.3	1	1	Indus-

Diagrams

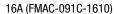


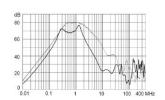
- 1) Line
- 2) Load

Attenuation Loss

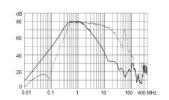
- - - - 50Ω differential mode _____ 50Ω common mode

Industrial version

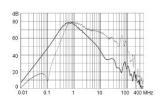




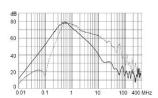
25A (FMAC-091C-2510)



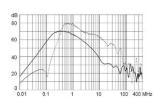
36A (FMAC-091D-3610)



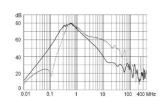
50A (FMAC-091D-5010)



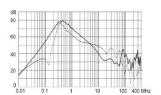
55A (FMAC-091D-5510)



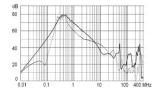
64A (FMAC-091E-6410)



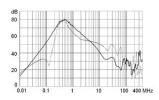
80A (FMAC-091T-8010)



110A (FMAC-091G-H110)



150A (FMAC-091G-H210)



All Variants

Rated Current @ Tu 40°C (75°C) [A]	Characteristic	Rated Voltage [VAC]	Tripped Po- wer Dissipa- tion [W]	Leakage Current [mA] @ 440V,	Contact Resistance [m Ω]	Weight [kg]	Screw clamps [mm2] 2)	Housing	Order Number	
16	High attenuation	480	6	8.9	7.6	1 kg	4	1C	FMAC-091C-1610	
25	High attenuation	480	8	8.9	4.1	1 kg	4	1C	FMAC-091C-2510	
36	High attenuation	480	10	8.9	2.5	1.3 kg	10	1D-10	FMAC-091D-3610	
50	High attenuation	480	13	10.2	1.7	1.7 kg	10	1D-10	FMAC-091D-5010	
55	High attenuation	480	14	10.2	1.5	1.7 kg	10	1D-10	FMAC-091D-5510	
64	High attenuation	480	17	10.2	1.4	2 kg	16	1E	FMAC-091E-6410	
110	High attenuation	480	28	11.8	0.8	5.8 kg	50	1G	FMAC-091G-H110	
150	High attenuation	480	40	11.8	0.6	7 kg	50	1G	FMAC-091G-H210	
80	High attenuation	480	22	11.1	1.1	5.1 kg	25	1T	FMAC-091T-8010	
64	High attenuation	480	17	10.2	1.4	2 kg	16	SF	FMAC-3FSF-6410	

Most Popular.

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

- 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

Packaging unit

1 Pcs