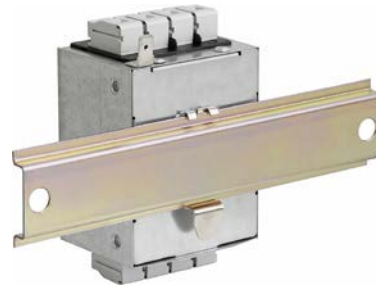


1-stage filter for 3-phase systems with neutral conductor, DIN rail mounting



### Approvals and Compliances

#### Description

- 3 phase line filter with standard attenuation

#### Applications

- Especially designed for electric switch and control cabinets
- Suitable for use in equipment according to IEC/UL 60950

#### Weblinks

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

#### Technical Data

Rated Current	3 - 20A @ Ta 40 °C
Rated voltage	277/480VAC, 50/60 Hz
Approval for	3 - 20A / 277/480VAC
Overload Current	1.5 x Ir
Leakage Current	standard < 0.5mA (440V / 50Hz)
Dielectric Strength	277/480VAC:
	2.25kVDC between L-L
	1.7kVDC between L-N
	3kVDC between L-PE
	Test voltage (2 sec)
Number of Filter Stages	1-stage
Weight	0.4kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	DIN rail mounting
Terminal	Bolts and nuts M4, Quick connect terminal for PE
Operating Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP 20 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](#)

#### Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: FMAD

Approval Logo	Certificates	Certification Body	Description
	<a href="#">VDE Approvals</a>	VDE	Certificate Number: 40030736
	<a href="#">UL Approvals</a>	UL	UL File Number: E72928





#### Application standards

Application standards where the product can be used

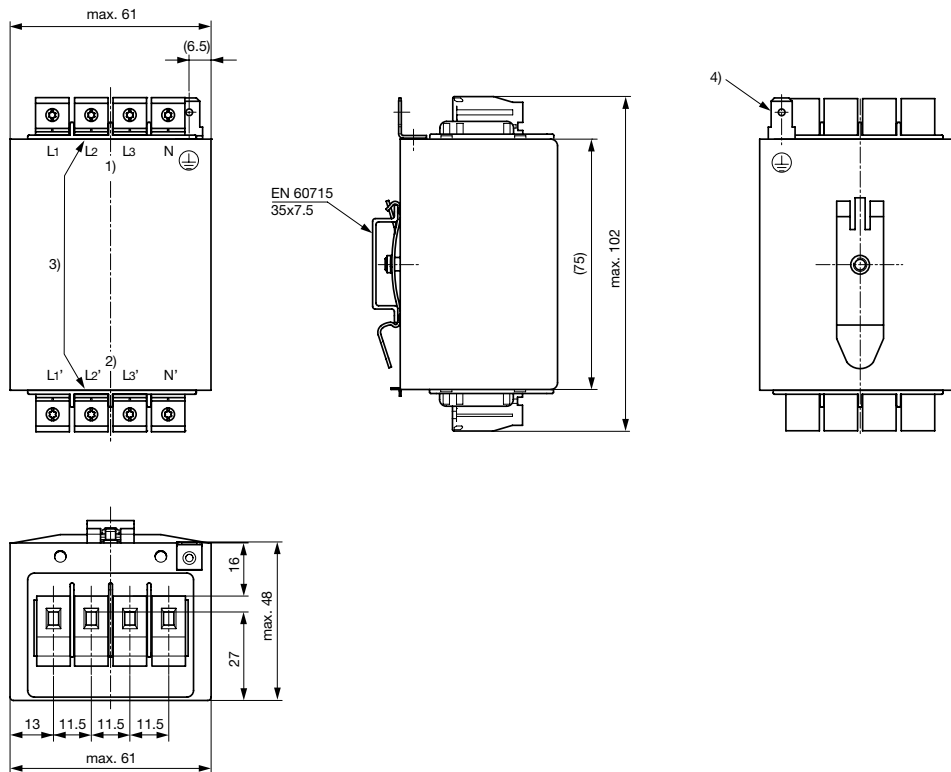
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

### Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<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.
	<a href="#">RoHS</a>	SCHURTER AG	EU Directive RoHS 2011/65/EU
	<a href="#">China RoHS</a>	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.
	<a href="#">REACH</a>	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]

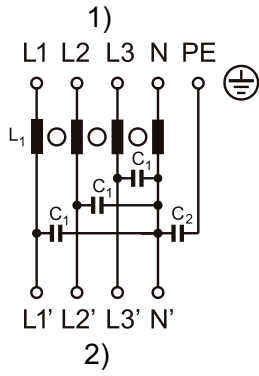


- 1) Line
- 2) Load
- 3) Tightening torque 0.6-0.8 Nm, Screw 4mm<sup>2</sup>
- 4) Quick connect terminal 6.3x0.8mm

### Technical data to the filter components

Rated Current [A]	Rated Voltage [VAC]	L [mH]	C1 [nF]	C2 [nF]
10	277 - 480	0.4	100	4.7
20	277 - 480	0.15	100	22
3	277 - 480	1	100	4.7
6	277 - 480	0.5	100	4.7

Diagrams



1) Line  
 2) Load

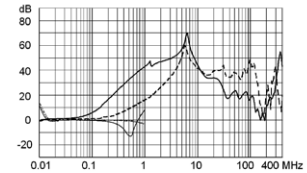
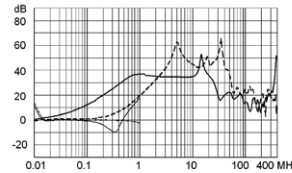
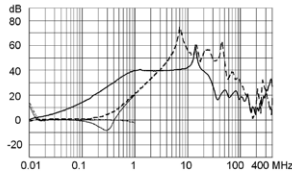
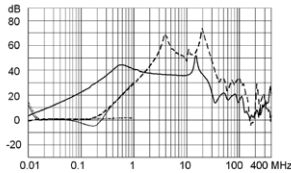
**Attenuation Loss** . . . . 0.1/100Ω differential mode ..... 100/0.1Ω differential mode - - - - 50Ω differential mode \_\_\_\_ 50Ω common mode  
 Industrial version

3 A

6 A

10 A

20 A



All Variants

Rated Current [A]	Tripped Power Dissi-	Leakage Cur- rent [mA] @ 440V,	Contact Resistance [mΩ]	Weight [g]	Screw clamps [mm <sup>2</sup> ] <sup>2)</sup>	Order Number
10	3.2	0.02	8	395 g	4	FMAD-MRYB-1010
20	5.8	0.08	3.6	420 g	4	FMAD-MRYB-2010
3	1.4	0.02	38	385 g	4	FMAD-MRYB-0310
6	1.7	0.02	11.5	385 g	4	FMAD-MRYB-0610

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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.

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 [www.schurter.com/emc\\_info](http://www.schurter.com/emc_info)

Packaging unit 5 Pcs