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



FMAD RAIL with rail from front side



FMAD RAIL with rail from rear side

See below:

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

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

Mounting	DIN rail mounting
Terminal	Bolts and nuts M4, Quick connect ter-
	minal for PE
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: FMAD

Approval Logo	Certificates	Certification Body	Description
1 0	VDE Approvals	VDE	Certificate Number: 40030736
	UL Approvals	UL	UL File Number: E72928

Application standards

Application standards where the product can be used

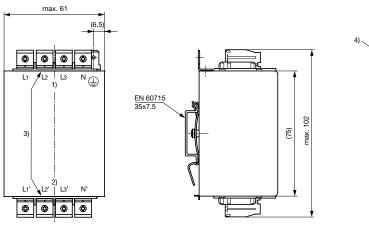
Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

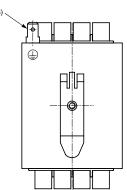
Compliances

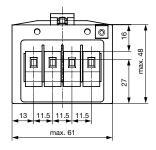
The product complies with following Guide Lines

Identification	Details	Initiator	Description
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.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/836
©	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]





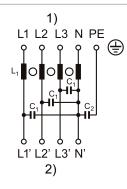


- 1) Line 2) Load
- 3) Tightening torque 0.6-0.8 Nm, Screw 4mm²
- 4) Quick connect terminal 6.3x0.8mm

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



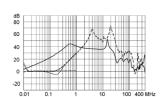
6 A

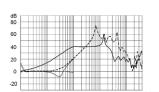
1) Line 2) Load

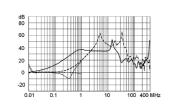
10 A

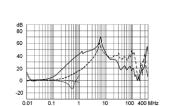
Industrial version

3 A









20 A

All Variants

Rated Current [A]	Tripped Power Dissi-	Leakage Cur- rent [mA] @ 440V,	Contact Resistance $[m\Omega]$	Weight [g]	Screw clamps [mm2] 2)	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

Most Popular.

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

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

Packaging unit

5 Pcs