FMAC RAIL

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

new



Description
- 3 phase line filter with standard attenuation
- Easy and time saving handling

Approvals
- VDE Certificate Number: 40030735
- UL File Number: E72928

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

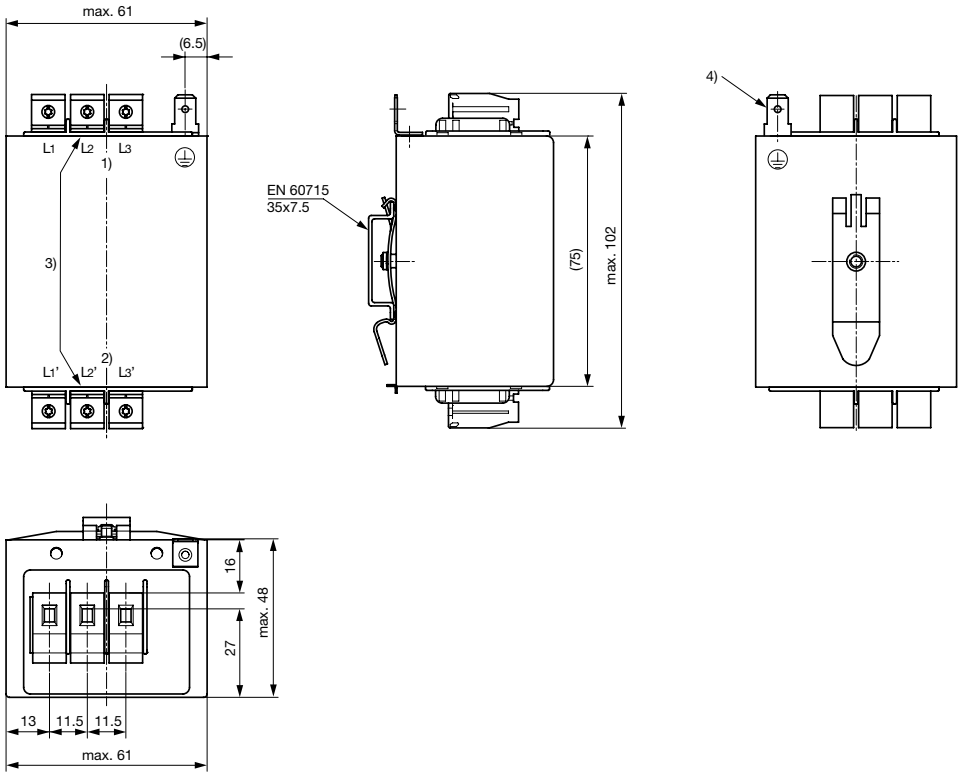
Weblinks
pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Detailed request for product

Technical Data

Rated Current	3 - 20 A @ Ta 40 °C
Rated voltage	480 VAC, 50/60 Hz
Approval for	3 - 20 A @ Ta 40 °C / 480 VAC; 50/60 Hz
Overload Current	1.5 x Ir
Leakage Current	standard < 0.5 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	0.4 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	DIN rail mounting
Terminal	Bolts and nuts M4, Quick connect terminal for PE
Operating Temperature [°C]	-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	> 200'000 h acc. to MIL-HB-217 F

Dimension

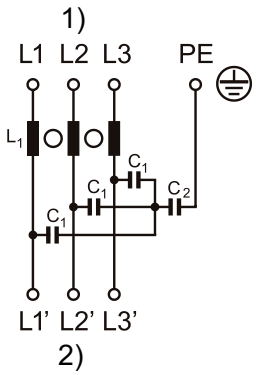


1) Line
2) Load
3) Tightening torque 0.6-0.8 Nm, Screw 4mm²
4) Quick connect terminal 6.3x0.8mm

Technical data to the filter components

Rated Current [A]	Rated Voltage [VAC]	L [mH]	C1 [nF]	C2 [nF]
10	-	1	100	4.7
20	-	0.22	100	22
3	-	3	100	4.7
6	-	2	100	4.7

Diagrams



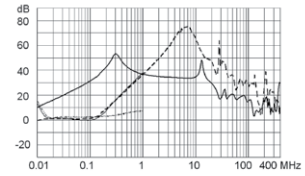
1) Line
2) Load

Attenuation Loss

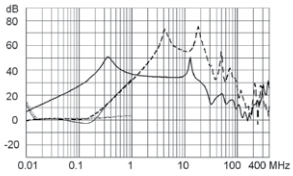
- - - - differential mode _____ common mode

Standard version

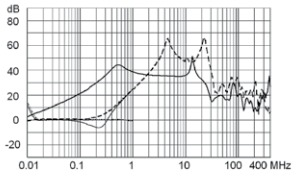
3 A



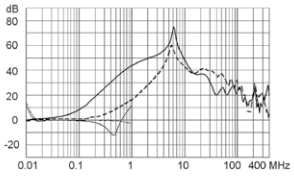
6 A



10 A



20 A



All Variants

Rated Current [A]	Tripped Power Dissi-	Leakage Current [mA] @ 440V,	Contact Resistance [mΩ]	Weight [g]	Screw clamps [mm²] 2)	Order Number
10	2.6	0.02	8.5	395 g	4	FMAC-3RYB-1010
20	4.9	0.08	4.1	395 g	4	FMAC-3RYB-2010
3	1.1	0.02	40	355 g	4	FMAC-3RYB-0310
6	2.3	0.02	21	375 g	4	FMAC-3RYB-0610

Most Popular.

Availability for all products can be searched real-time:http://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 www.schurter.com/emc_info

Packaging unit 5 Pcs

03.03.2015

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.