FMAD RAIL

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

new



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

Approvals
- VDE Certificate Number: 40030736
- UL File Number: E72928

Applications
- Especially designed for electric switch and control cabinets
- Qualified for use in equipment according IEC/EN 60950

References

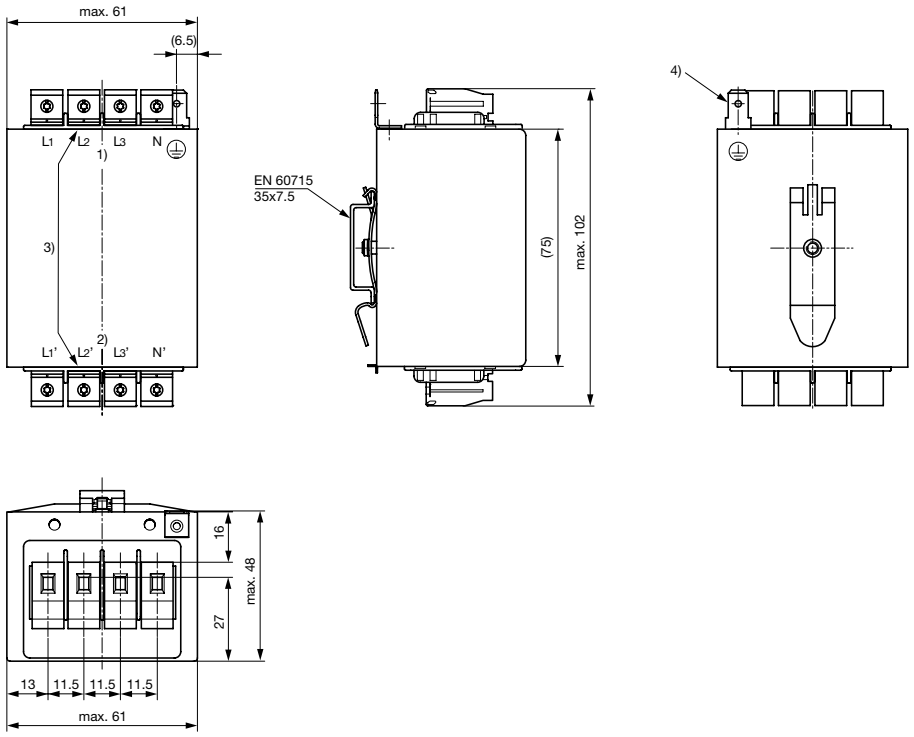
Weblinks
pdf, html, General Product Information, Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Rated Current	3 - 20 A @ Ta 40 °C
Rated voltage	275 - 480 VAC, 50/60 Hz
Approval for	6 - 20 A / 275 - 480 VAC
Overload Current	1.5 x Ir
Leakage Current	industrial < 1 mA (440 V / 50 Hz)
Dielectric Strength for 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
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 1 acc. to IEC 61140
MTBF	> 200'000 h acc. to MIL-HB-217 F

Dimensions

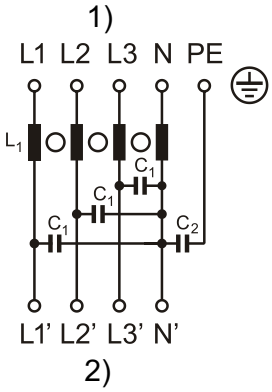


1) Line
2) Load
3) Tightening torque 0.6-0.8 Nm, Screw 4mm²
4) Quick connect terminal 6.3x0.8mm

Technical data to the filter components

Rated Current [A]	Rated Voltage [VAC]	L [mH]	C1 [nF]	C2 [nF]
10	275 - 480	0.4	100	4.7
20	275 - 480	0.15	100	22
3	275 - 480	1	100	4.7
6	275 - 480	0.5	100	4.7

Diagrams



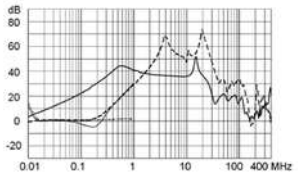
1) Line
2) Load

Attenuation Loss

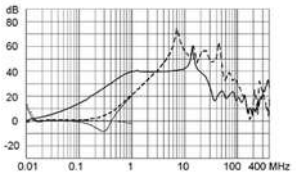
. . . . . 0.1/100Ω differential mode ..... 100/0.1Ω differential mode - - - - differential mode _____ common mode

Industrial Version

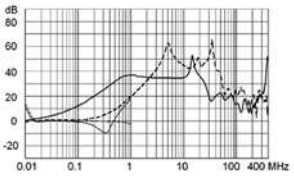
3 A



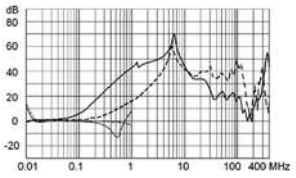
6 A



10 A



20 A



Variants

Rated Current [A]	Tripped Power Dissi-	Leakage Current [mA] 1)	Contact Resistance [mΩ]	Weight [g]	Screw clamps [mm²] 2)	Order Number
10	3.2	0.5	8	395	4	FMAD-MRYB-1010
20	5.8	2	3.6	420	4	FMAD-MRYB-2010
3	1.4	0.5	38	385	4	FMAD-MRYB-0310
6	1.7	0.5	11.5	385	4	FMAD-MRYB-0610

1) Worst case leakage current acc. to IEC60950 - Annex G4 (situation with two interrupted lines). Nominal leakage current acc. to IEC60950 - 5.2.5. can be found in section technical data.

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

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments.