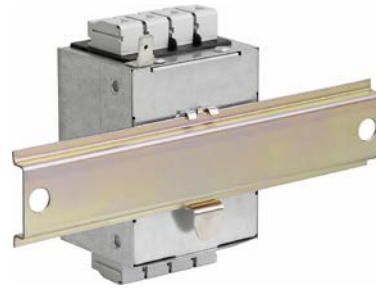


1-stage filter for 3-phase systems with neutral conductor, DIN rail mounting



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





Application standards

Application standards where the product can be used

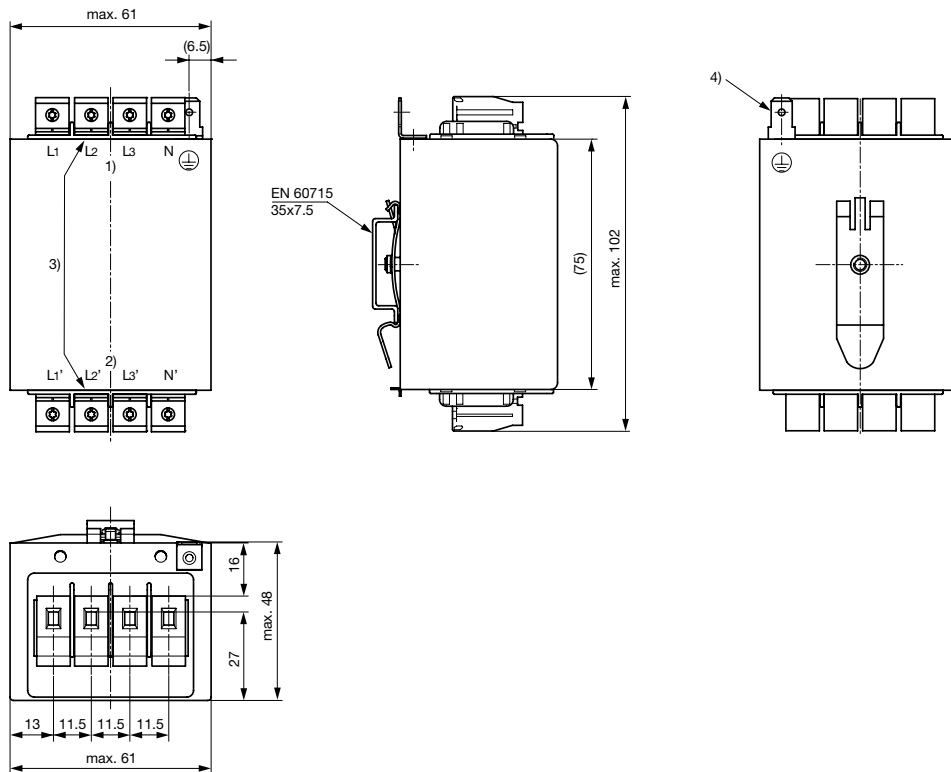
| Organization | Design | Standard | Description |
|--------------|--------------------------------|--------------|---|
| | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | 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 | SCHURTER AG | EU Directive RoHS 2011/65/EU |
|  | 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 | 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]

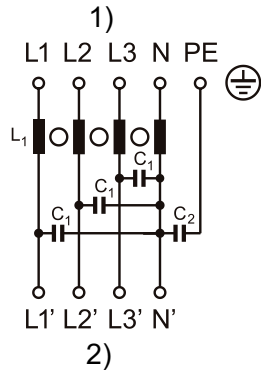


- 1) Line
- 2) Load
- 3) Tightening torque 0.6-0.8 Nm, Screw 4mm²
- 4) Quick connect terminal 6.3x0.8mm

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



1) Line
 2) Load

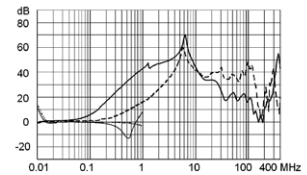
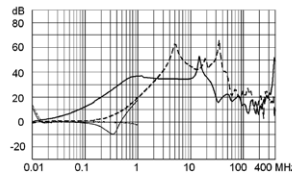
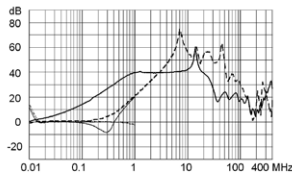
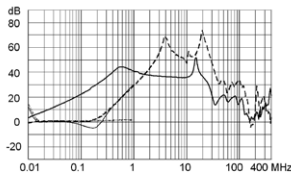
Attenuation Loss 0.1/100Ω differential mode 100/0.1Ω differential mode - - - - 50Ω differential mode ____ 50Ω common mode
 Industrial version

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 ²] 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 www.schurter.com/emc_info

Packaging unit 5 Pcs