

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



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 62368-1

Weblinks

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

Technical Data

| | |
|-------------------------|---|
| Rated Current | 3 - 20A @ Ta 40 °C |
| Rated voltage | 480VAC, 50/60 Hz |
| Approval for | 3 - 20A @ Ta 40 °C / 480VAC; 50/60 Hz |
| Overload Current | 1.5 x Ir for 1 minute, per hour |
| Leakage Current | standard < 0.5 mA (440V / 50Hz) |
| Dielectric Strength | 480VAC: 2.25kVDC between L-L 3kVDC 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 | -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: FMAC

| Approval Logo | Certificates | Certification Body | Description |
|---------------|-------------------------------|--------------------|------------------------------|
| | VDE Approvals | VDE | Certificate Number: 40030735 |
| | UL Approvals | UL | UR File Number: E72928 |

Application standards

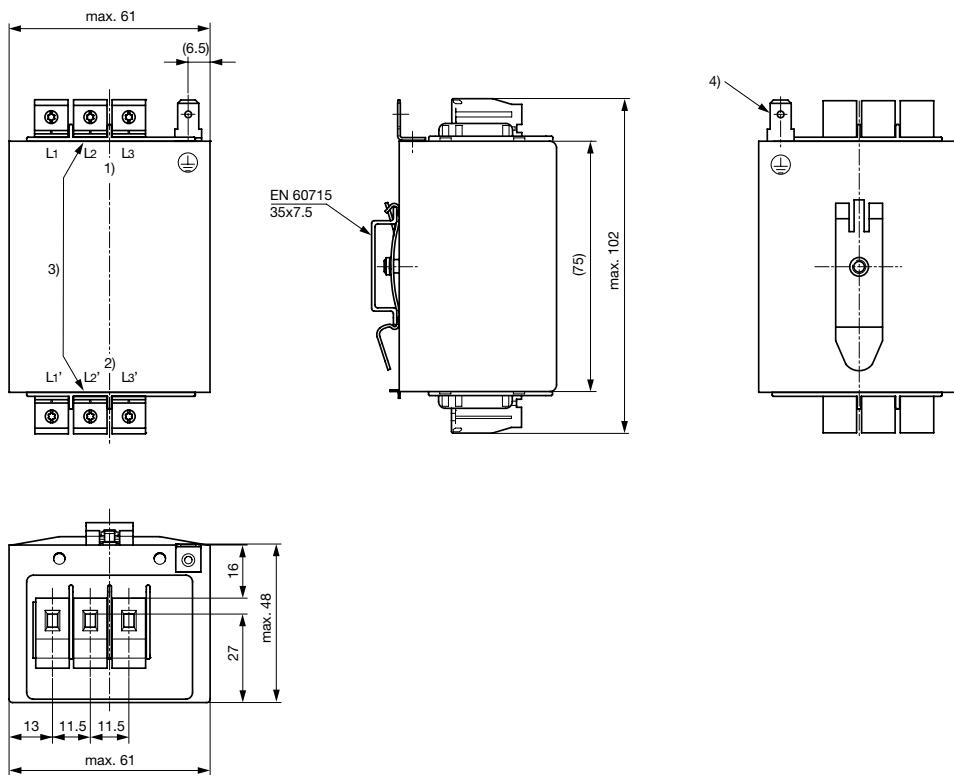
Application standards where the product can be used

| Organization | Design | Standard | Description |
|--------------|--------------------------------|----------------|---|
| | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|----------------|--------------------------------|-------------|---|
| CE | 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. |
| UKCA | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
| RoHS | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
| China RoHS | 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. |

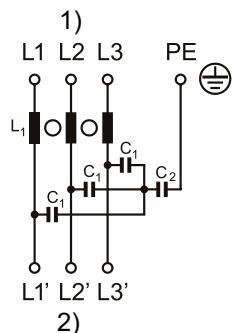
Dimension [mm]

- 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 | - | 1 | 100 | 4.7 |
| 20 | - | 0.22 | 100 | 22 |
| 3 | - | 3 | 100 | 4.7 |
| 6 | - | 2 | 100 | 4.7 |

Diagrams

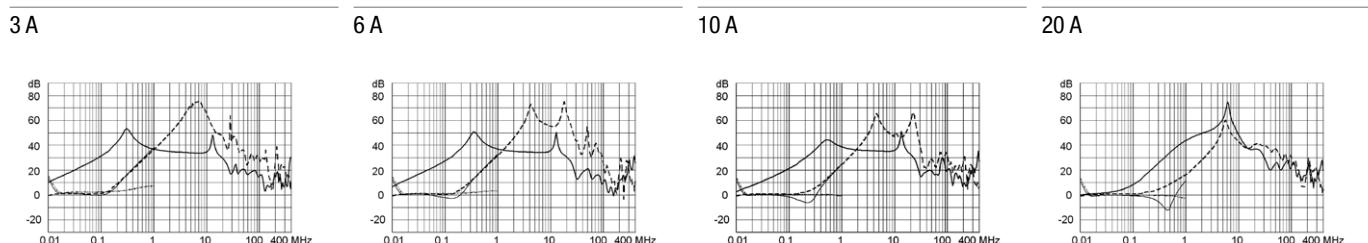


1) Line
 2) Load

Attenuation Loss

Standard version

- - - 50Ω differential mode _____ 50Ω common mode



Variants

| Rated Current [A] | Power Dissipation [W] | 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 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

1) Leakage current according IEC 60939-1

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