

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

new



Description

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

Approvals

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

Applications

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

Weblinks

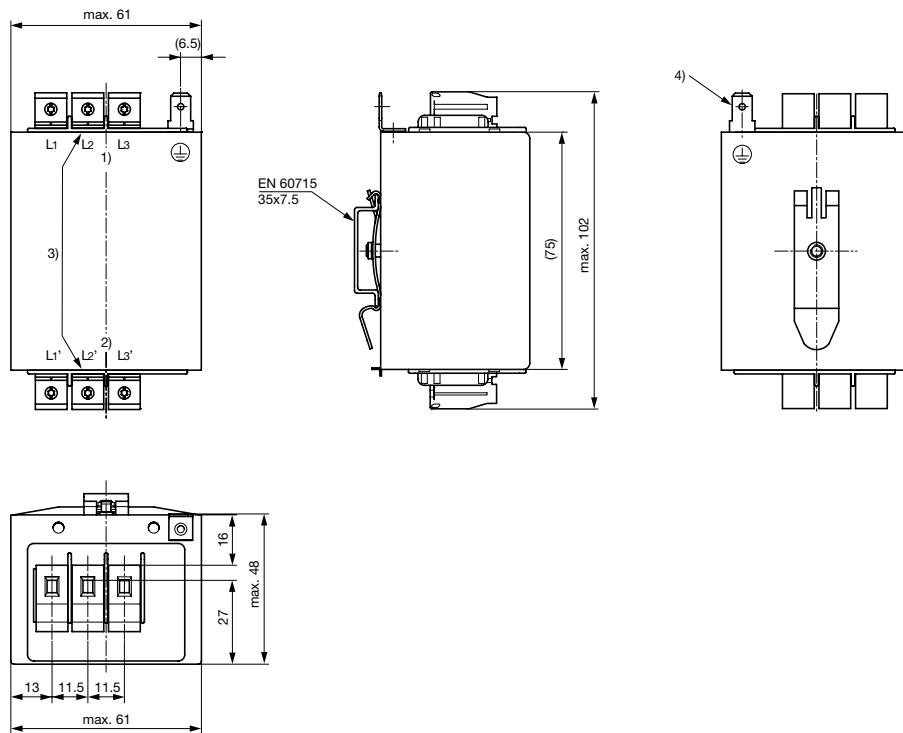
[pdf](#), [html](#), [General Product Information](#), [Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

| | |
|---------------------------------|--|
| Rated Current | 3 - 20A @ Ta 40 °C |
| Rated voltage | 480VAC, 50/60 Hz |
| Approval for | 3 - 20A @ 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 for 480 VAC | 2.25 kVDC between L-L 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 | > 200'000h acc. to MIL-HB-217 F |

Dimensions

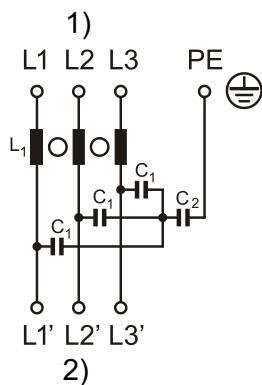


- 1) Line
- 2) Load
- 3) Tightening torque 0.6-0.8 Nm, Screw 4mm²
- 4) Quick connect terminal 6.3x0.8mm

Technical data to the filter components

| Rated Current [A] | Rated Voltage [VAC] | L [mH] | C1 [nF] | C2 [nF] |
|-------------------|---------------------|--------|---------|---------|
| 10 | 480 | 1 | 100 | 4.7 |
| 20 | 480 | 0.22 | 100 | 22 |
| 3 | 480 | 3 | 100 | 4.7 |
| 6 | 480 | 2 | 100 | 4.7 |

Diagrams



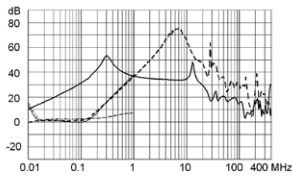
- 1) Line
- 2) Load

Attenuation Loss

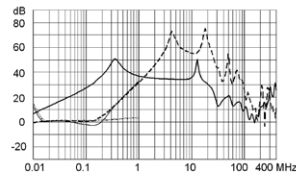
Standard version

- - - differential mode _____ common mode

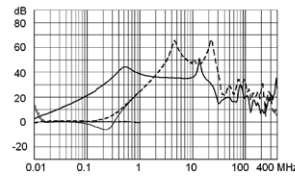
3 A



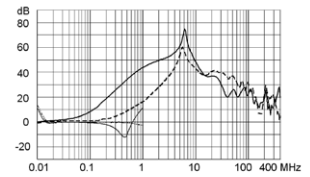
6 A



10 A



20 A

**Variants**

| Rated Current [A] | Tripped Power Dissi- | Leakage Current [mA] ¹⁾ | Contact Resistance [mΩ] | Weight [g] | Screw clamps [mm ²] ²⁾ | Order Number |
|-------------------|----------------------|------------------------------------|-------------------------|------------|---|----------------|
| 10 | 2.6 | 0.5 | 8.5 | 395 | 4 | FMAC-3RYB-1010 |
| 20 | 4.9 | 2 | 4.1 | 395 | 4 | FMAC-3RYB-2010 |
| 3 | 1.1 | 0.5 | 40 | 355 | 4 | FMAC-3RYB-0310 |
| 6 | 2.3 | 0.5 | 21 | 375 | 4 | FMAC-3RYB-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