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









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
- Suitable for use in equipment according to IEC/UL 60950

Weblinks

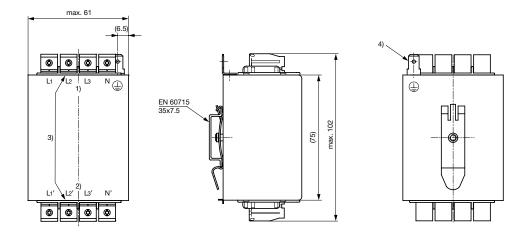
pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Detailed request for product

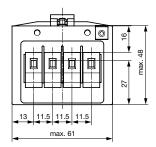
|--|

| Rated Current | 3 - 20 A @ Ta 40 °C |
|-------------------------|--|
| Rated voltage | 277/480 VAC, 50/60 Hz |
| Approval for | 3 - 20 A / 277/480 VAC |
| Overload Current | 1.5 x lr |
| Leakage Current | standard < 0.5 mA (440 V / 50 Hz) |
| Dielectric Strength | 277/480 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-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 [°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 | > 200'000h acc. to MIL-HB-217 F |

Dimension



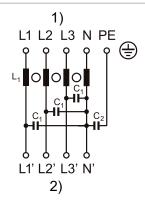


- 1) Line
- 2) Load
- 3) Tightening torque 0.6-0.8 Nm, Screw 4mm²
- 4) Quick connect terminal 6.3x0.8mm

Technical data to the filter components

| Rated Current [A] | Rated Voltage [VAC] | L [mH] | C1 [nF] | C2 [nF] |
|-------------------|---------------------|--------|---------|---------|
| 10 | 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



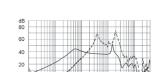
- 1) Line
- 2) Load

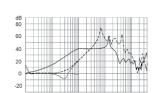
Attenuation Loss $0.1/100\Omega$ differential mode $100/0.1\Omega$ differential mode ---- differential mode ____ common mode

10 A

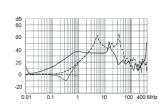
Industrial version

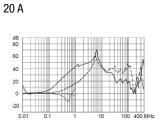
3 A





6 A





All Variants

| Rated Current [A] | Tripped Power Dissi- | Leakage Cur- rent [mA] @ 440V, | Contact Resistance $[m\Omega]$ | 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: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

Mouser Electronics

Authorized Distributor

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FMAD-MRYB-2010 FMAD-MRYB-1010