

AC Filter 2-Stage, Very High Symmetrical and Asymmetrical Attenuation



Approvals and Compliances

Description

- Line-filter in standard version
- 2 positions
- high attenuation

Characteristics

- Designed for increased requirements
- 2-stage line filter with increased attenuation
- Protection against interference voltage from the mains
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
- Especially suitable for use in switching power supplies
- Suitable for use in equipment according to IEC/UL 60950

References

Alternative: Standard version

Weblinks

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

Technical Data

| | |
|---------------------------------|---|
| Ratings IEC | 3 - 36A @ Ta 40 °C / 250VAC; 50Hz |
| Ratings UL/CSA | 3 - 36A @ Ta 40 °C / 125VAC; 60Hz |
| Leakage Current | standard < 0.5mA (250V / 60Hz) |
| Dielectric Strength | > 1.7kVDC between L-N > 2.7kVDC between L/N-PE Test voltage (2 sec) |
| Allowable Operation Temperature | -25°C to 100°C |
| Climatic Category | 25/100/21 acc. to IEC 60068-1 |
| Protection Class | Suitable for appliances with protection class I acc. to IEC 61140 |
| Terminal | Quick connect terminals 6.3 x 0.8 mm or screw terminals Current >24 A requires screw terminals |
| Material: Housing | Alu. anodised / Stainless Steel |

| | |
|-------------|---|
| Line Filter | Standard and Industrial Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details |
| 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: FSW

| Approval Logo | Certificates | Certification Body | Description |
|---------------|-------------------------------|--------------------|------------------------------|
| | VDE Approvals | VDE | Certificate Number: 40019274 |
| | UL Approvals | UL | UL File Number: E72928 |


Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|------------------|---|
|  | Designed according to | IEC 60320-1 | Appliance couplers for household and similar general purposes |
|  | Designed according to | IEC 60939 | Passive filters for suppressing electromagnetic interference |
|  | Designed according to | UL 498 | Standard for Attachment Plugs and Receptacles |
|  | Designed according to | UL 1283 | Electromagnetic interference filters |
|  | Designed according to | CSA C22.2 no. 42 | General Use Receptacles, Attachment Plugs, and Similar Wiring Devices |
|  | Designed according to | CSA C22.2 no. 8 | Electromagnetic interference (EMI) filters |





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

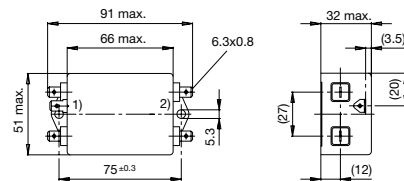
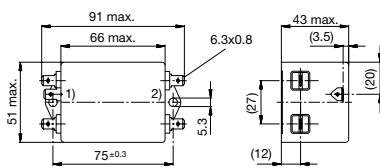
The product complies with following Guide Lines

| 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]

Case 48

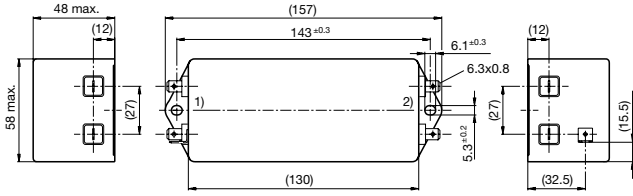
Case 49



1) Line
2) Load

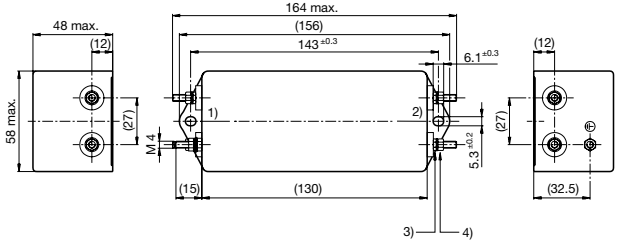
1) Line
2) Load

Case FF with quick connect terminals



- 1) Line
- 2) Load

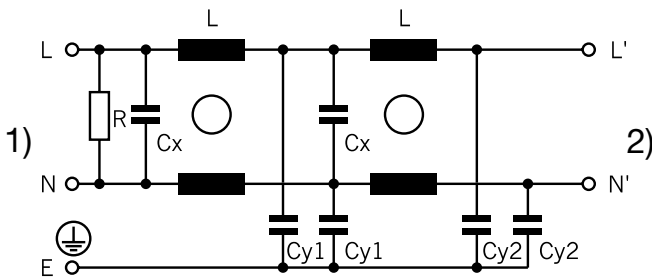
Case FF with screw terminals



- 1) Line
- 2) Load
- 3) Lock-nut do not unscrew
- 4) Nut torque 0.85...1 Nm, keep lock-nut fastened

Diagrams

Standard version



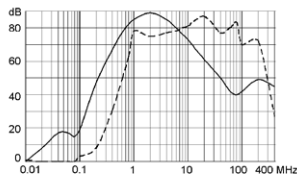
- 1) Line
- 2) Load

Attenuation Loss

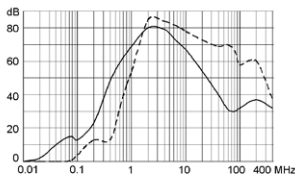
--- 50Ω differential mode ____ 50Ω common mode

Standard version

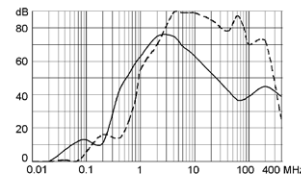
3 A



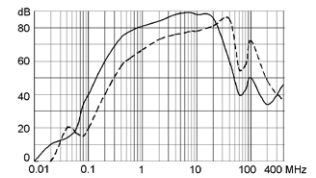
6 A



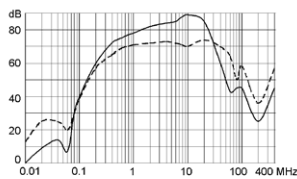
10 A



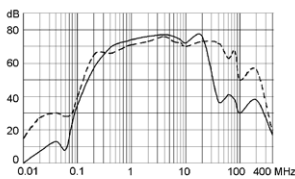
16 A



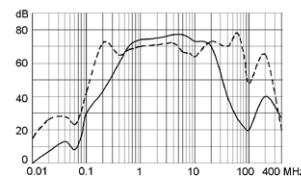
20 A



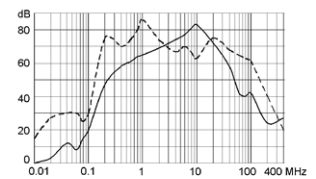
24 A



25 A

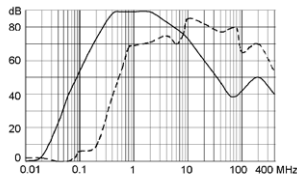


36 A

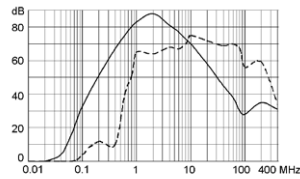


Industrial version

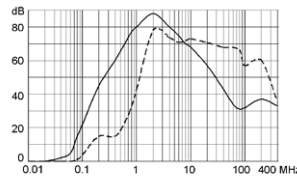
3 A



6 A



10 A



All Variants

| Rated Current [A] | Filter-Type | Leakage Current [mA] | Terminal | L [mH] | Cx [µF] | Cy1 [nF] | Cy2 [nF] | R [MΩ] | Weight [g] | Housings | Packaging [PCS] | Order Number |
|-------------------|--------------------|----------------------|-------------------------|----------|---------|----------|----------|--------|------------|----------|-----------------|--------------|
| 3 | Standard Version | 0.25 | Quick connect terminals | 2 x 2 | 0.1 | 1.5 | 1 | 1 | 157 g | 49 | 10 | 5500.2058 |
| 6 | Standard Version | 0.25 | Quick connect terminals | 2 x 0.8 | 0.1 | 1.5 | 1 | 1 | 159 g | 49 | 10 | 5500.2060 |
| 10 | Standard Version | 0.25 | Quick connect terminals | 2 x 0.4 | 0.1 | 1.5 | 1 | 1 | 159 g | 49 | 10 | 5500.2062 |
| 16 | Standard Version | 0.5 | Quick connect terminals | 2 x 1.3 | 1 | 4.7 | - | 1 | 200 g | 48 | 10 | 5500.2218 |
| 20 | Standard Version | 0.5 | Quick connect terminals | 2 x 2.4 | 2.2 | 4.7 | - | 1 | 840 g | FF | 4 | 5500.2219 |
| 24 | Standard Version | 0.5 | Quick connect terminals | 2 x 2 | 2.2 | 4.7 | - | 1 | 910 g | FF | 4 | 5500.2220 |
| 25 | Standard Version | 0.5 | Bolts and nuts M4 | 2 x 2 | 2.2 | 4.7 | - | 1 | 910 g | FF | 4 | 5500.2221 |
| 36 | Standard Version | 0.5 | Bolts and nuts M4 | 2 x 1.23 | 2.2 | 4.7 | - | 1 | 910 g | FF | 4 | 5500.2222 |
| 3 | Industrial Version | 2.5 | Quick connect terminals | 2 x 2 | 0.1 | 22 | 1 | 1 | 157 g | 49 | 10 | 5500.2059 |
| 6 | Industrial Version | 2.5 | Quick connect terminals | 2 x 0.8 | 0.1 | 22 | 1 | 1 | 159 g | 49 | 10 | 5500.2061 |
| 10 | Industrial Version | 2.5 | Quick connect terminals | 2 x 0.4 | 0.1 | 22 | 1 | 1 | 159 g | 49 | 10 | 5500.2063 |

Most Popular.

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>