

AC Filter Cost Optimized



Approvals and Compliances

**Description**

- Line filter in standard and medical version
- 1-stage
- standard attenuation

**Characteristics**

- Designed for universal industrial applications
- High attenuation at maximum resp. asymmetric load independent from the line impedance  
Protection against interference voltage from the mains  
Possible interferences generated in the equipment are strongly attenuated
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
- Suitable for use in equipment according to IEC/UL 60950  
Suitable for use in medical equipment according to IEC/UL 60601-1

**Other versions on request**

- Version with wire connection

**References**

Alternative: Standard version

**Weblinks**

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

**Technical Data**

|                                 |   |             |  |
|---------------------------------|---|-------------|--|
| Ratings IEC                     | 6 - 20A @ Ta 40 °C / 250VAC; 50Hz                                       | Line Filter | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a> |
| Ratings UL/CSA                  | 6 - 20A @ Ta 40 °C / 125VAC; 60Hz                                       | MTBF        | > 200'000h acc. to MIL-HB-217 F  |
| Leakage Current                 | standard < 0.35mA (250V / 60Hz)   |             |  |
| Dielectric Strength             | 1.7 kVDC between L-N<br>2.7 kVDC between L/N-PE<br>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                                    |             |  |
| Material: Housing               | Aluminum  |             |  |

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: FMLB

| Approval Logo | Certificates                  | Certification Body | Description                  |
|---------------|-------------------------------|--------------------|------------------------------|
|               | <a href="#">VDE Approvals</a> | VDE                | Certificate Number: 40004673 |
|               | <a href="#">UL Approvals</a>  | 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.        |
|  | Designed for applications acc. | IEC 60601-1  | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance |

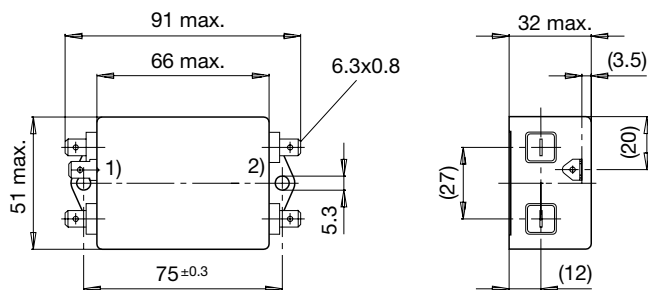
## Compliances

The product complies with following Guide Lines

| Identification   | Details                                      | Initiator   | Description   |
|--|--|-------------|---|
|  | <a href="#">CE declaration of conformity</a> | 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. |
|  | <a href="#">RoHS</a>                         | SCHURTER AG | EU Directive RoHS 2011/65/EU  |
|  | <a href="#">China RoHS</a>                   | 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.  |
|  | <a href="#">REACH</a>                        | 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.                               |
|  | <a href="#">Medical Equipment</a>            | SCHURTER AG | Suitable for use in medical equipment according to IEC/UL 60601-1   |

## Dimension [mm]

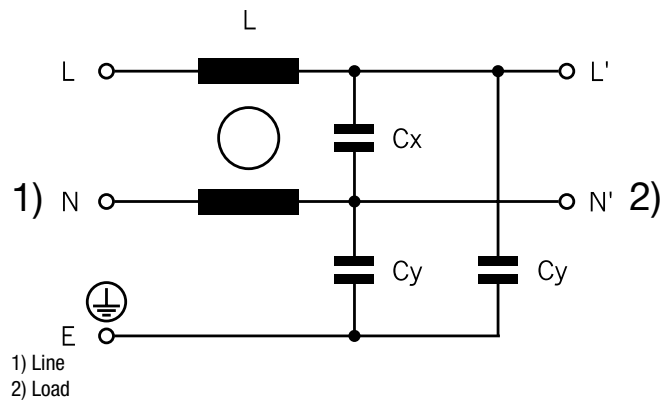
Case 49



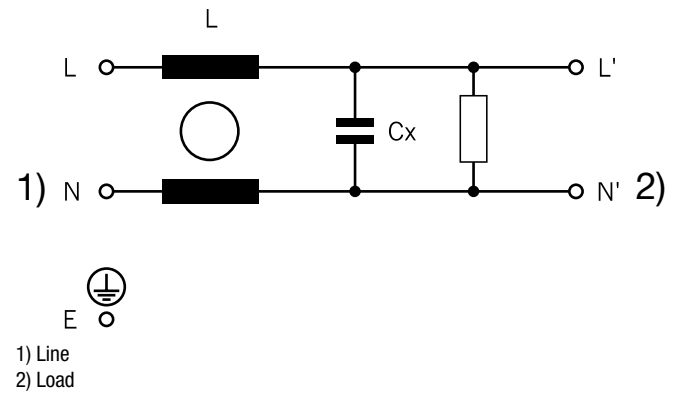
- 1) Line
- 2) Load

Diagrams

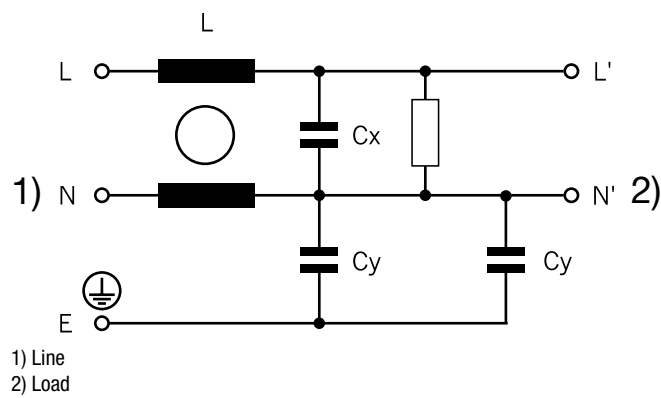
Standard version



Medical version (M5)



Medical version (M80)

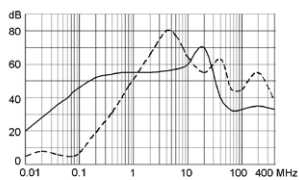


Attenuation Loss

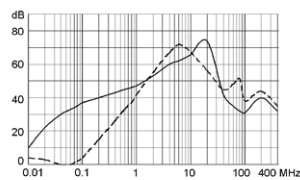
----- 50Ω differential mode \_\_\_\_\_ 50Ω common mode

Standard version

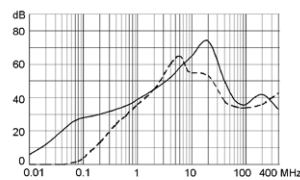
6 A



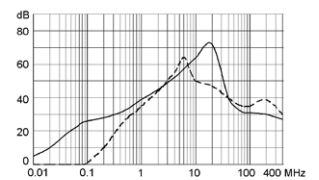
10 A



16 A

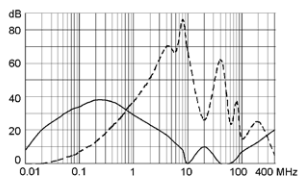


20 A

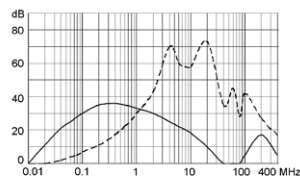


Medical version (M5)

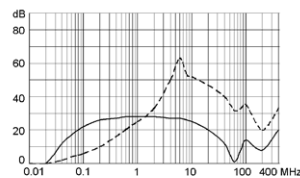
6 A



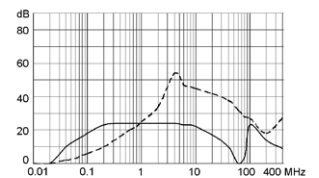
10 A



16 A

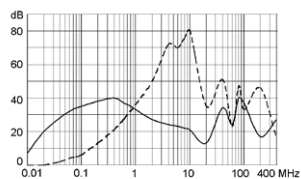


20 A

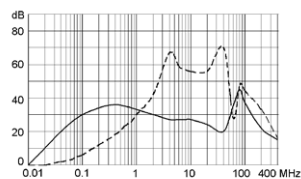


Medical version (M80)

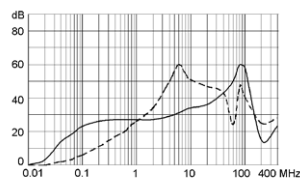
6 A



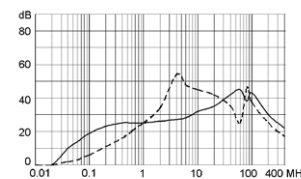
10 A



16 A



20 A



## All Variants

| Rated Current [A] | Filter-Type           | L [mH]  | Cx (X2) [µF] | Cy (Y2) [nF] | Weight [g] | Housings | Order Number |
|-------------------|-----------------------|---------|--------------|--------------|------------|----------|--------------|
| 6                 | Standard Version      | 2 x 14  | 0.1          | 3.3          | 212 g      | 49       | 5500.2035    |
| 10                | Standard Version      | 2 x 5   | 0.1          | 3.3          | 212 g      | 49       | 5500.2036    |
| 16                | Standard Version      | 2 x 2   | 0.1          | 3.3          | 208 g      | 49       | 5500.2037    |
| 20                | Standard Version      | 2 x 1.5 | 0.1          | 3.3          | 218 g      | 49       | 5500.2038    |
| 6                 | Medical Version (M5)  | 2 x 14  | 0.1          | -            | 212 g      | 49       | 5500.2082    |
| 10                | Medical Version (M5)  | 2 x 5   | 0.1          | -            | 212 g      | 49       | 5500.2083    |
| 16                | Medical Version (M5)  | 2 x 2   | 0.1          | -            | 208 g      | 49       | 5500.2084    |
| 20                | Medical Version (M5)  | 2 x 1.5 | 0.1          | -            | 218 g      | 49       | 5500.2085    |
| 6                 | Medical Version (M80) | 2 x 14  | 0.1          | 0.47         | 212 g      | 49       | 5500.2094    |
| 10                | Medical Version (M80) | 2 x 5   | 0.1          | 0.47         | 212 g      | 49       | 5500.2095    |
| 16                | Medical Version (M80) | 2 x 2   | 0.1          | 0.47         | 208 g      | 49       | 5500.2096    |
| 20                | Medical Version (M80) | 2 x 1.5 | 0.1          | 0.47         | 218 g      | 49       | 5500.2097    |

Most Popular.

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

**Packaging unit** 10 Pcs