

DC-Filter, dual pole



See below:

**Approvals and Compliances**

**Description**

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

**Characteristics**

- Optimized for DC supplied applications
- Suitable for use in equipment according to IEC/UL 62368-1

**Other versions on request**

- Other terminal combinations
- Version with wire connection

**References**

Alternative: Standard version

**Weblinks**

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

**Technical Data**

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Ratings IEC                     | 5 - 30 A @ Ta 40 °C / ±80 VDC                                                       |
| Ratings UL/CSA                  | 5 - 30 A @ Ta 40 °C / ±80 VDC                                                       |
| Dielectric Strength             | > 1.7 kVDC between Vss-GND<br>> 2.7 kVDC between Vss/GND-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 and screw terminals                                                   |
| Material: Housing               | Aluminum, UL 94V-0                                                                  |

|             |                                                                                              |
|-------------|----------------------------------------------------------------------------------------------|
| Line Filter | Industrial version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a> |
| 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: FMEC

| Approval Logo                                                                       | Certificates                  | Certification Body | Description                  |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------|------------------------------|
|  | <a href="#">VDE Approvals</a> | VDE                | Certificate Number: 40020247 |
|  | <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 60939       | Passive filters for suppressing electromagnetic interference   |
|  | Designed according to | IEC 60127-6     | Miniature fuses. Part 6. Fuse-holders for miniature fuse-links |
|  | Designed according to | UL 1283         | Electromagnetic interference filters                           |
|  | 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 62368-1 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

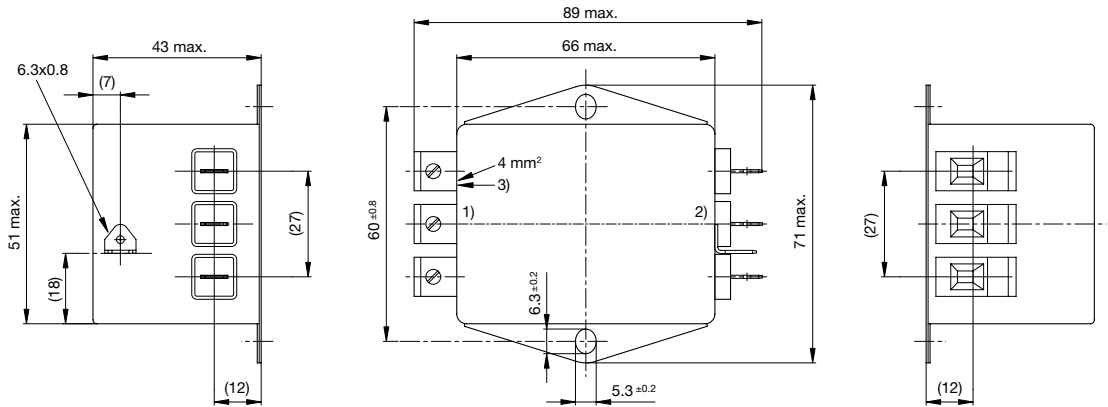
Compliances

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 | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863                                                                                                                                                    |
|   | <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.                               |

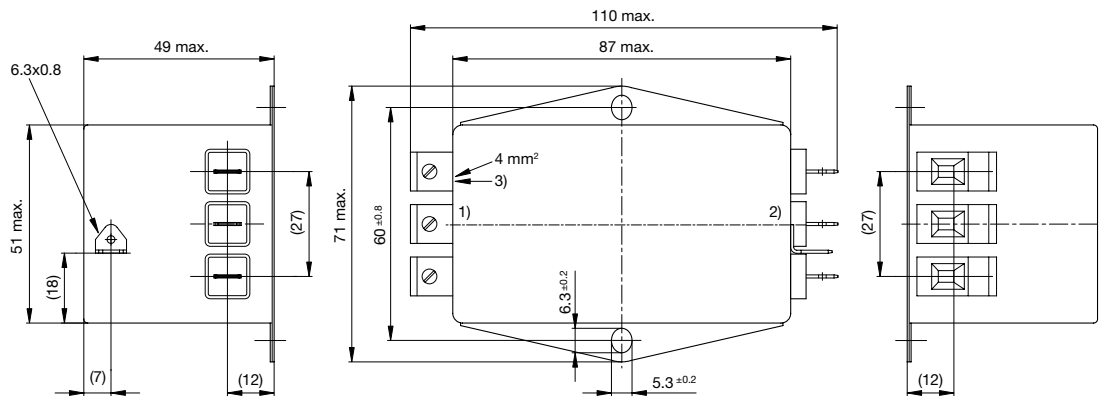
Dimension [mm]

Case 86-3



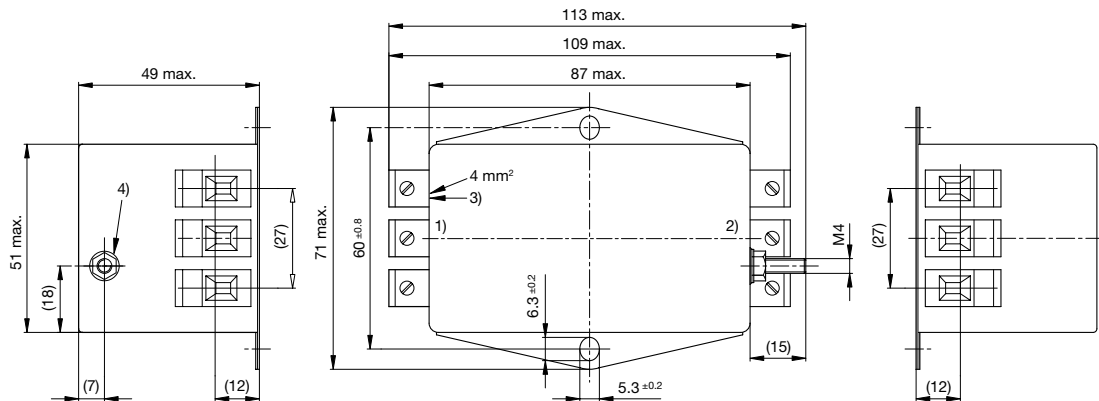
- 1) Line
- 2) Load
- 3) I/O connections torque 0.6...0.8 Nm

Case 87-3



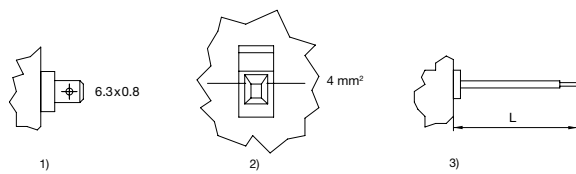
- 1) Line
- 2) Load
- 3) I/O connections torque 0.6...0.8 Nm

Case 87-7



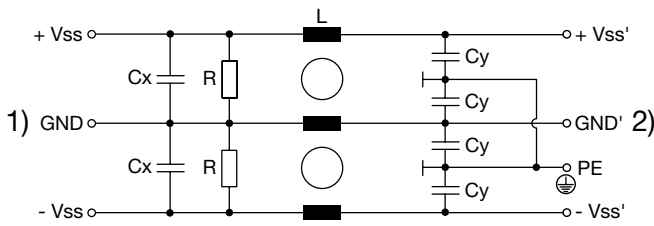
- 1) Line
- 2) Load
- 3) Tightening torque 0.6...0.8 Nm
- 4) Tightening torque 1.2...1.4 Nm

Terminal options



- 1) Quick connect terminals 6.3x0.8 (only up to 24A)
- 2) Screw clamp 4mm²
- 3) Flexible wires

Diagrams



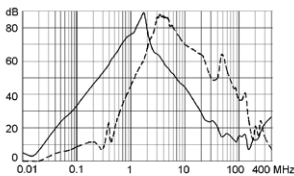
1) Line  
2) Load

Attenuation Loss

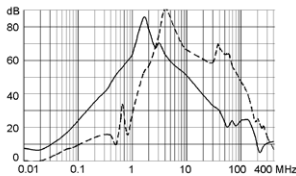
Standard version

--- 50Ω differential mode    50Ω common mode

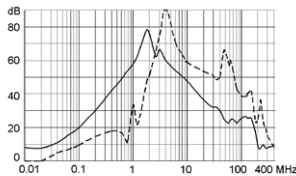
5 A



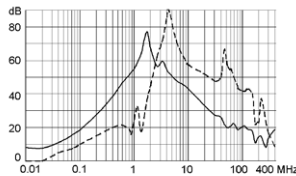
10 A



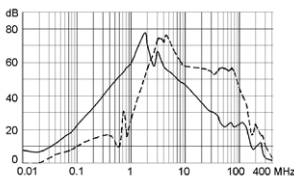
15 A



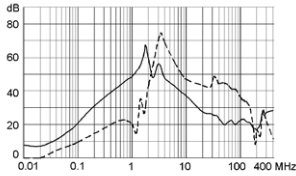
20 A



24 A



30 A



All Variants

| Rated Current [A] | L [mH]   | Cx (X2) [nF] | Cy (Y2) [nF] | R [MΩ] | Weight [g] | Housings | Packaging unit | Order Number |
|-------------------|----------|--------------|--------------|--------|------------|----------|----------------|--------------|
| 5                 | 3 x 0.75 | 100          | 100          | 1      | 245 g      | 86-3     | 10             | 5500.2229    |
| 10                | 3 x 0.2  | 100          | 100          | 1      | 245 g      | 86-3     | 10             | 5500.2230    |
| 15                | 3 x 0.1  | 100          | 100          | 1      | 250 g      | 86-3     | 10             | 5500.2231    |
| 20                | 3 x 0.07 | 100          | 100          | 1      | 260 g      | 86-3     | 10             | 5500.2232    |
| 24                | 3 x 0.14 | 100          | 100          | 1      | 400 g      | 87-3     | 4              | 5500.2233    |
| 30                | 3 x 0.08 | 100          | 100          | 1      | 425 g      | 87-7     | 4              | 5500.2234    |

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