

## AC Filter, Broad Band Attenuation



## Approvals and Compliances

### Description

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

### Characteristics

- Designed for high current applications
- High attenuation at maximum resp. asymmetric load independent from the line impedance
- 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

### References

Alternative: Standard version

### Weblinks

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

### Technical Data

|                                 |                                                                             |
|---------------------------------|-----------------------------------------------------------------------------|
| Ratings IEC                     | 12 - 50 A @ Ta 40 °C / 250 VAC; 50 Hz                                       |
| Ratings UL/CSA                  | 12 - 50 A @ Ta 40 °C / 125 VAC; 60 Hz                                       |
| Leakage Current                 | industrial < 5.2 mA (250 V / 60 Hz)                                         |
| 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                        | Screw                                                                       |
| Material: Housing               | Metal                                                                       |

|             |                                                                                              |
|-------------|----------------------------------------------------------------------------------------------|
| Line Filter | Industrial Version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a> |
| MTBF        | > 200'000 h 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: FMAB

| 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 60939       | Passive filters for suppressing electromagnetic interference |
|  | 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 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

Compliances

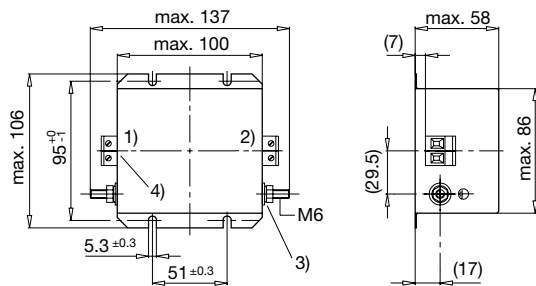
The product complies with following Guide Lines

| Identification                                                                    | Details                                      | Initiator   | Description                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|----------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <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.                               |

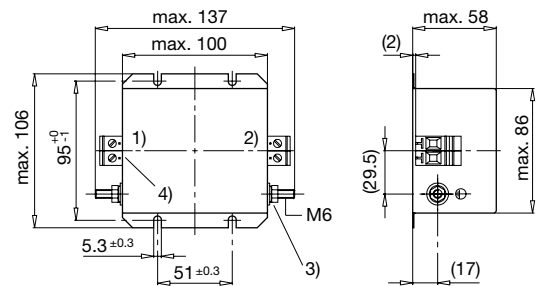
Dimension [mm]

Case 24-2

Case 24-6

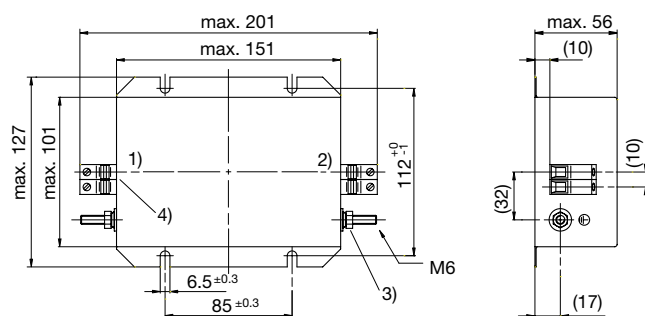


- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm
- 4) I/O Connections torque 0.6...0.8



- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm
- 4) I/O Connections torque 1.5...1.8

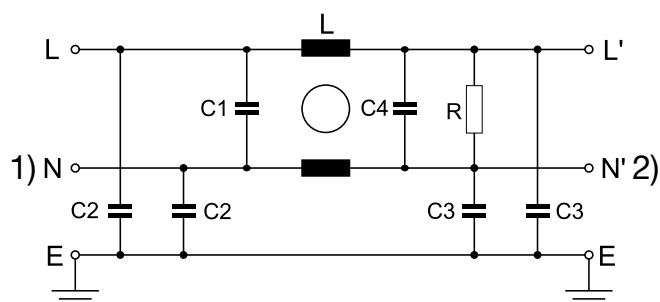
## Case 79-2



- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm
- 4) I/O Connections torque 1.5...1.8

## Diagrams

Standard version



- 1) Line
- 2) Load

## Attenuation Loss

Industrial version

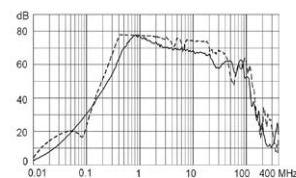
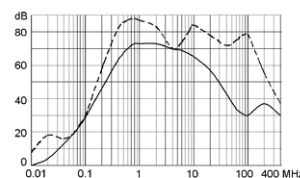
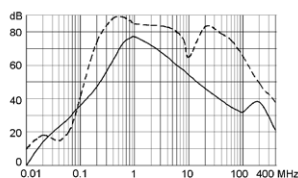
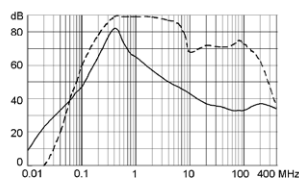
- - - 50Ω differential mode \_\_\_\_ 50Ω common mode

12 A

20 A

30 A

50 A



## All Variants

| Rated Current [A] | Filter-Type        | Leakage Current [mA] | L [mH]  | C1 (X2) | C2 (Y2) [nF] | C3 (Y2) | C4 (X2) | R [MΩ] | Clamps [mm <sup>2</sup> ] | Weight [g] | Housings | Order Number |
|-------------------|--------------------|----------------------|---------|---------|--------------|---------|---------|--------|---------------------------|------------|----------|--------------|
| 12                | Industrial Version | 5.2                  | 2 x 10  | 2.2     | 10           | 47      | 1       | 1      | 4                         | 927 g      | 24-2     | 5500.2064    |
| 20                | Industrial Version | 5.2                  | 2 x 3.5 | 2.2     | 10           | 47      | 1       | 1      | 4                         | 930 g      | 24-2     | 5500.2065    |
| 30                | Industrial Version | 5.6                  | 2 x 1.5 | 2.2     | 15           | 47      | 1       | 1      | 6                         | 970 g      | 24-6     | 5500.2066    |
| 50                | Industrial Version | 5.6                  | 2 x 1.5 | 2.2     | 15           | 47      | 1       | 1      | 10                        | 970 g      | 79-2     | 5500.2067    |

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Packaging unit      2 Pcs

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