

**Power line filters for single-phase systems  
with additional LF suppression**  
**Rated voltage 250 V~, 50/60 Hz**  
**Rated current 2 A to 36 A**

### Construction

- Two-line filter
- Metal case
- Polyurethane potting (UL 94 V-0)

### Features

- Especially high differential-mode insertion loss from 20 kHz upwards
- Safe mounting by press-in nuts
- Space-saving design

### Applications

- Switch-mode power supplies for traction, safety systems, automation engineering
- Industrial electronics

### Terminals

- Litz wires

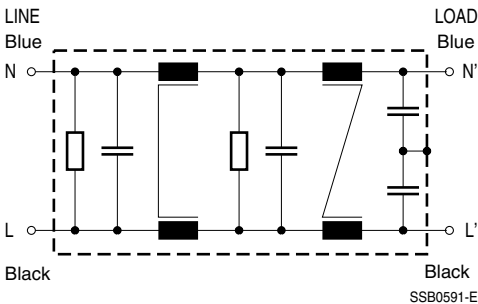
### Marking

Marking on component:  
 Manufacturer's logo, ordering code,  
 rated voltage, rated current,  
 date code

Minimum marking on packaging:  
 Manufacturer's logo, ordering code



### Circuit diagram



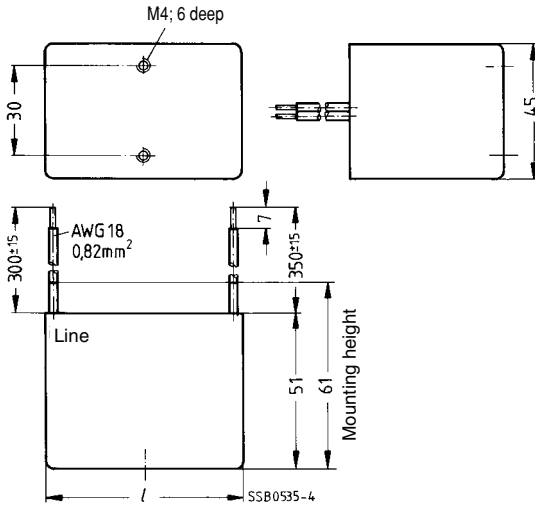
**Technical data**

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| Rated voltage $V_R$        | 250 V~, 50/60 Hz                                                                    |
| Rated current $I_R$        | Referred to 40 °C ambient temperature                                               |
| Test voltage $V_P$         | 1414 V~, 2 s (line/line)<br>2830 V~, 2 s (lines/case)                               |
| Leakage current $I_{leak}$ | at 230 V~, 50 Hz                                                                    |
| Climatic category          | In accordance with EN 60068-1<br>25/085/21 (– 25 °C/+ 85 °C/21 days damp heat test) |

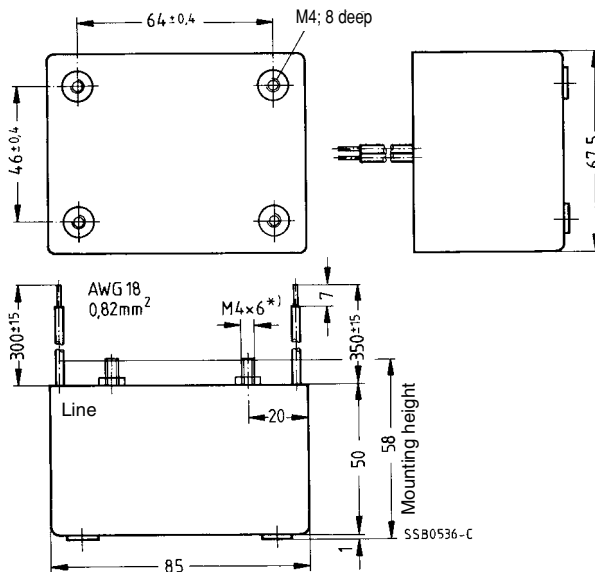
**Characteristics and ordering codes**

| $I_R$ | $R_{typ}$ | Approx.<br>weight<br>kg | $I_{leak}$ | Ordering code | Approvals                                                                         |                                                                                   |
|-------|-----------|-------------------------|------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| A     | mΩ        |                         | mA         |               |  |  |
| 2     | 530       | 0,35                    | < 3,5      | B84299-K61-C  | ×                                                                                 | —                                                                                 |
| 4     | 150       | 0,37                    | < 3,5      | B84299-K62-C  | ×                                                                                 | —                                                                                 |
| 6     | 110       | 0,82                    | < 3,5      | B84299-K63    | —                                                                                 | ×                                                                                 |
| 10    | 50        | 1                       | < 3,5      | B84299-K64-C  | —                                                                                 | ×                                                                                 |
| 16    | 35        | 1,8                     | < 3,5      | B84299-K65    | —                                                                                 | —                                                                                 |
| 25    | 27        | 2,9                     | < 3,5      | B84299-K66    | —                                                                                 | —                                                                                 |
| 36    | 12        | 2,9                     | < 10       | B84299-K67    | —                                                                                 | —                                                                                 |

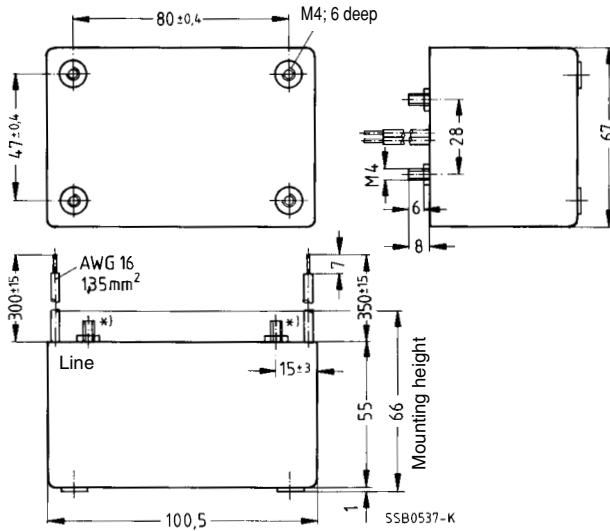
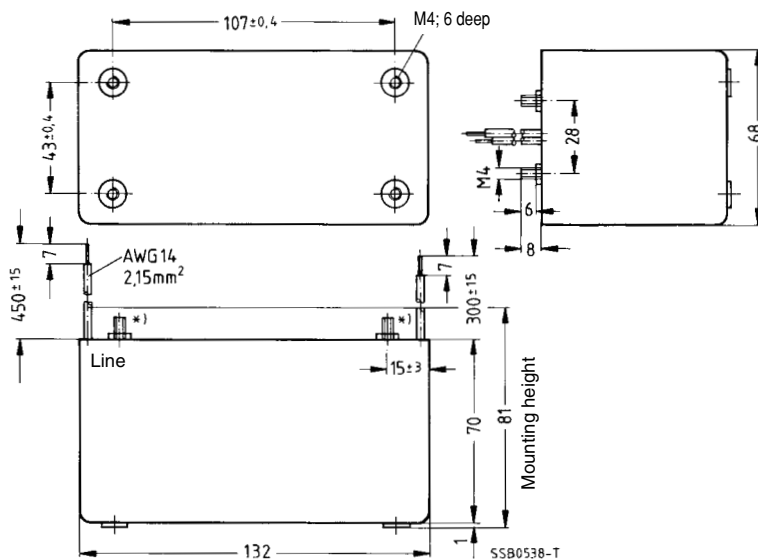
× = approval granted

**Dimensional drawings**
**B84299-K61-C, B84299-K62-C**


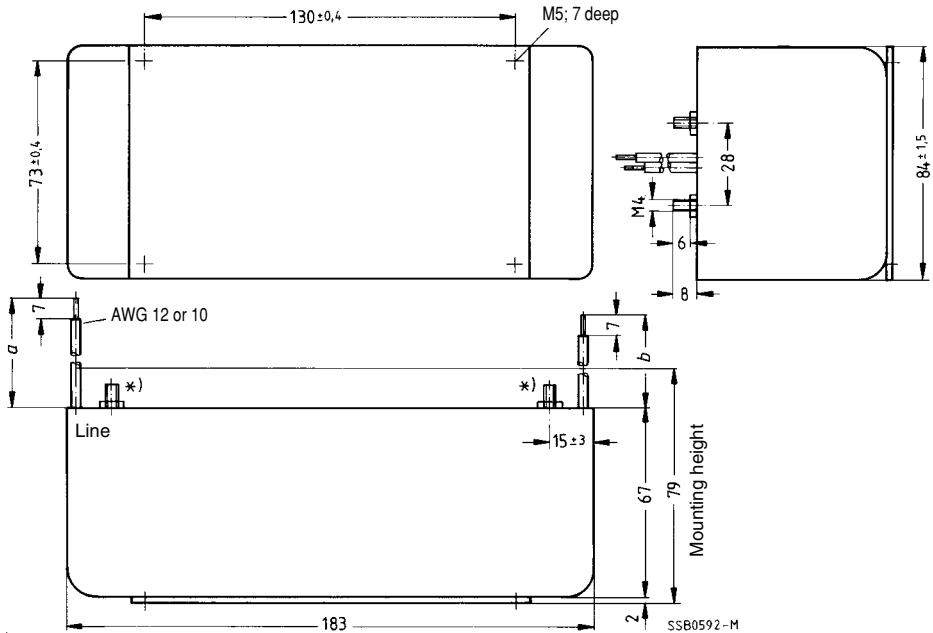
| Type         | Length / |
|--------------|----------|
| B84299-K61-C | 65 mm    |
| B84299-K62-C | 75 mm    |

**B84299-K63**


\*) Ground terminal for shielding braid or fixing stud for cable clamp M4

**Dimensional drawings**
**B84299-K64-C**

**B84299-K65**


\*) Ground terminal for shielding braid or fixing stud for cable clamp M4

**Dimensional drawing**
**B84299-K66, B84299-K67**


| Type       | Litz wire                    | Length l (mm) |     |
|------------|------------------------------|---------------|-----|
|            |                              | a             | b   |
| B84299-K66 | AWG 12; 3,44 mm <sup>2</sup> | 300 (line)    | 800 |
| B84299-K67 | AWG 10; 5,37 mm <sup>2</sup> | 240 (line)    | 800 |

\*) Ground terminal for shielding braid or fixing stud for cable clamp M4

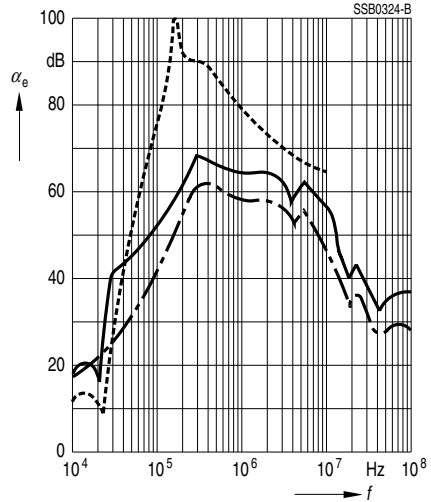
**Insertion loss** (typical values at  $Z = 50 \Omega$ )

- unsymmetrical, adjacent branches terminated
- - - - - common mode, all branches in parallel (asymmetrical)
- - - - - differential mode (symmetrical)

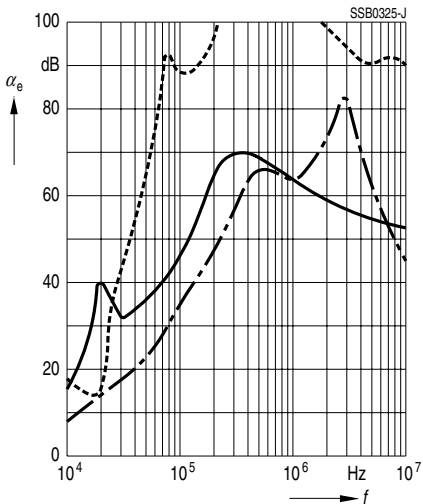
**B84299-K61-C**



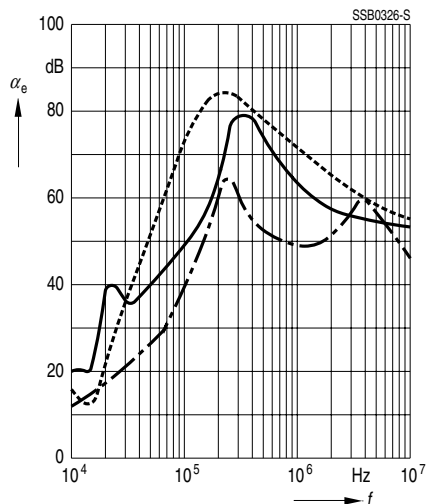
**B84299-K62-C**



**B84299-K63**



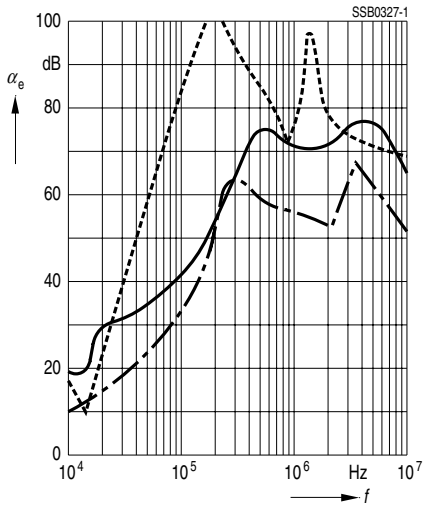
**B84299-K64-C**



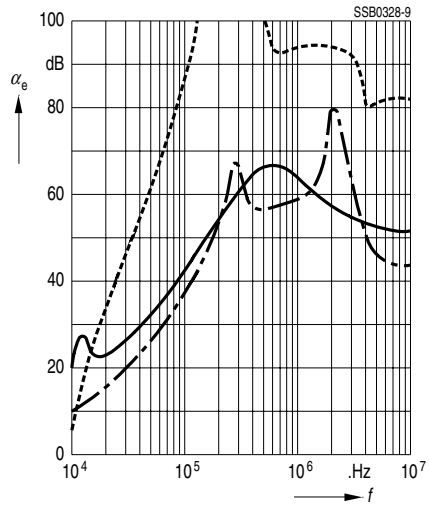
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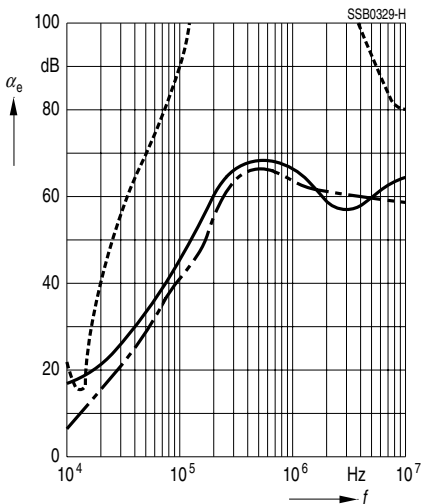
**B84299-K65**



**B84299-K66**



**B84299-K67**



## **Herausgegeben von EPCOS AG**

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