

**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

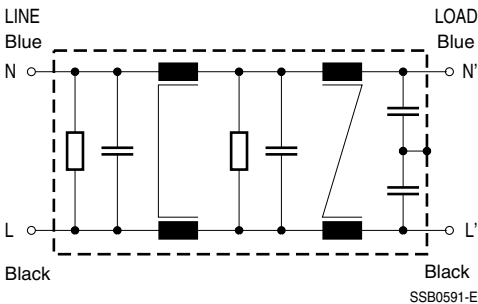
- Litz wires

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) 2830 V~, 2 s (lines/case)
Leakage current I_{leak}	at 230 V~, 50 Hz
Climatic category	In accordance with EN 60068-1 25/085/21 (- 25 °C/+ 85 °C/21 days damp heat test)

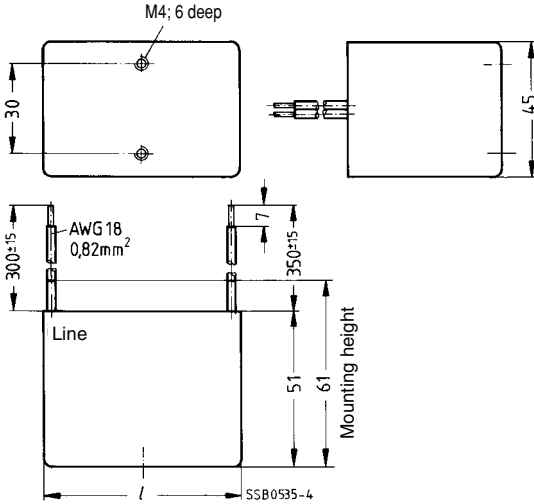
Characteristics and ordering codes

I_R	R_{typ}	Approx. weight	I_{leak}	Ordering code	Approvals	
A	mΩ	kg	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

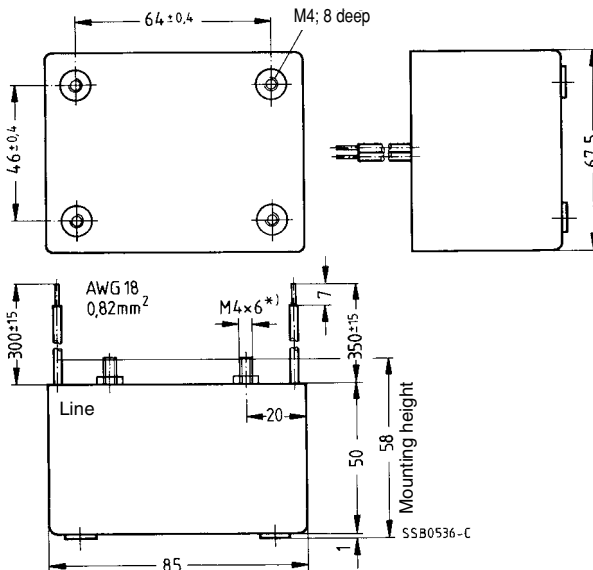
Dimensional drawings

B84299-K61-C, B84299-K62-C



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

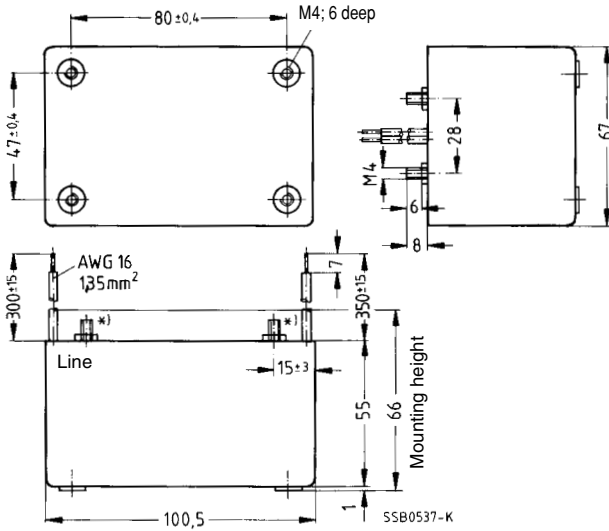
B84299-K63



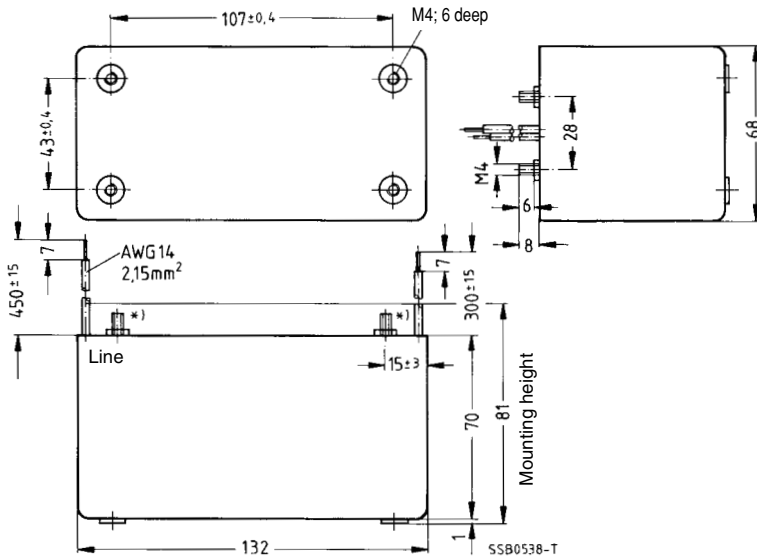
*) Ground terminal for shielding braid or fixing stud for cable clamp M4

Dimensional drawings

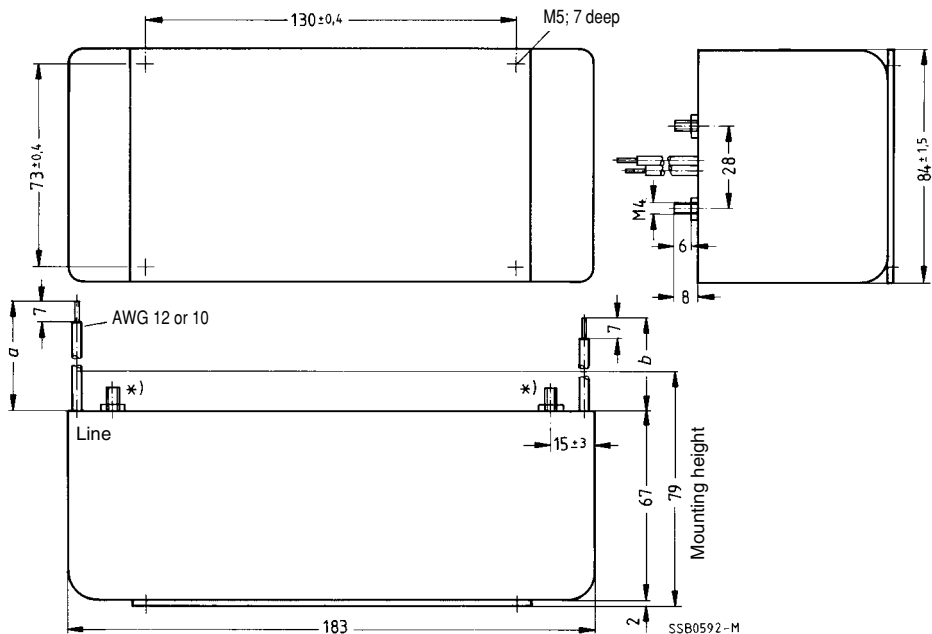
B84299-K64-C



B84299-K65



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

Dimensional drawing
B84299-K66, B84299-K67


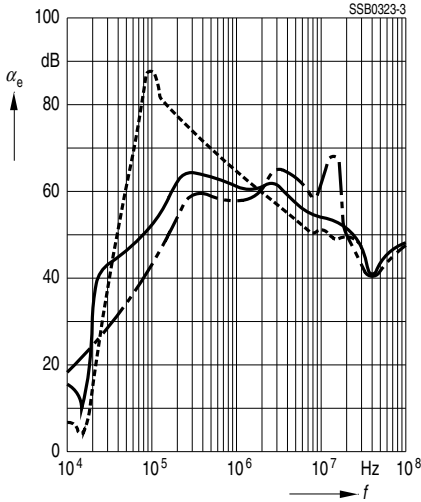
Type	Litz wire	Length l (mm)	
		<i>a</i>	<i>b</i>
B84299-K66	AWG 12; 3,44 mm ²	300 (line)	800
B84299-K67	AWG 10; 5,37 mm ²	240 (line)	800

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

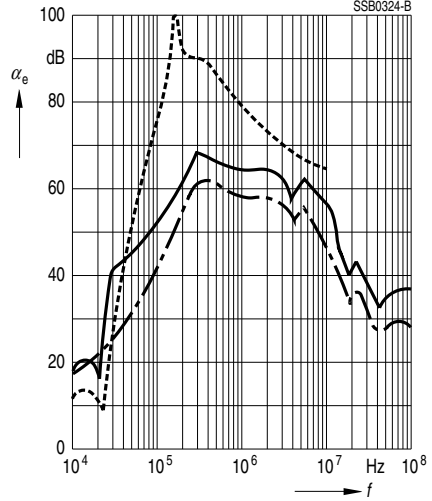
Insertion loss (typical values at $Z = 50 \Omega$)

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

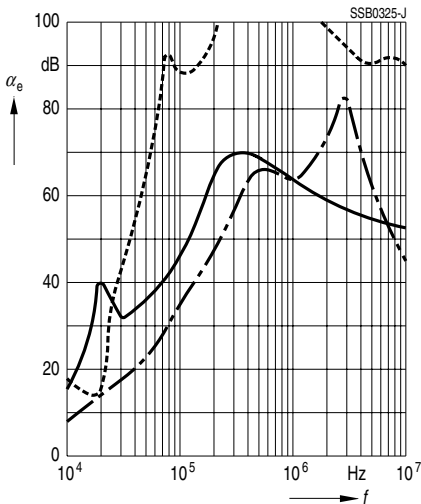
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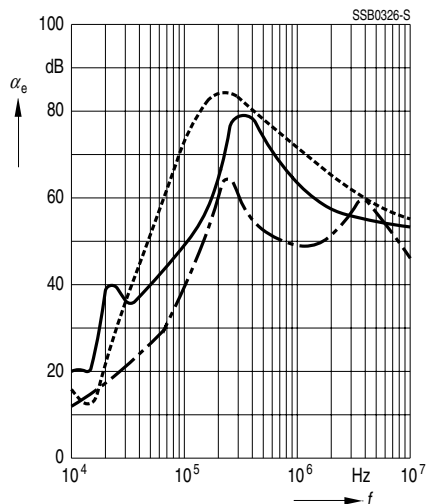
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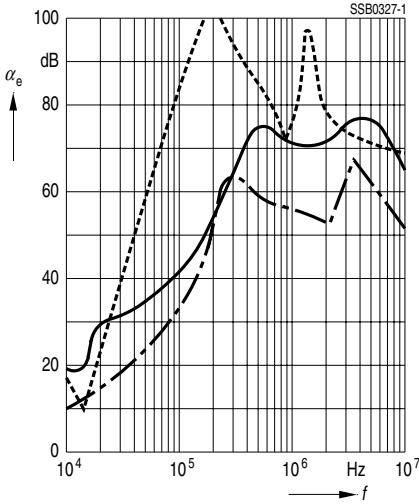
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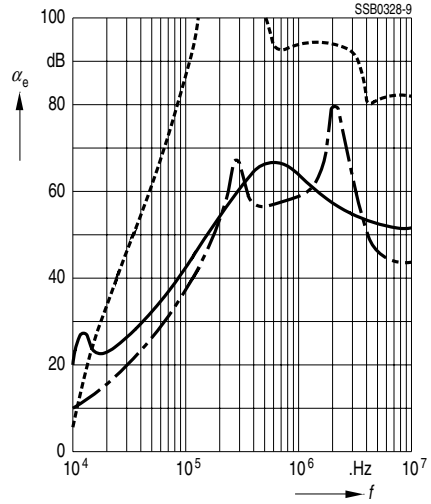
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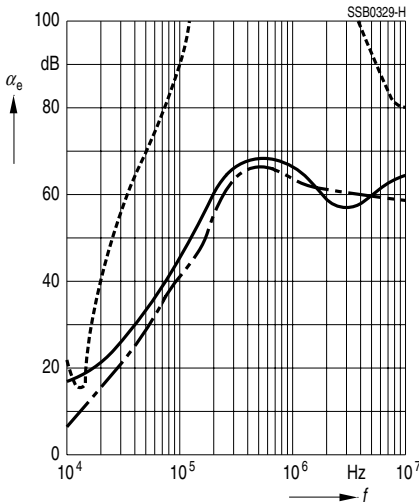
B84299-K65



B84299-K66



B84299-K67



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