

**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

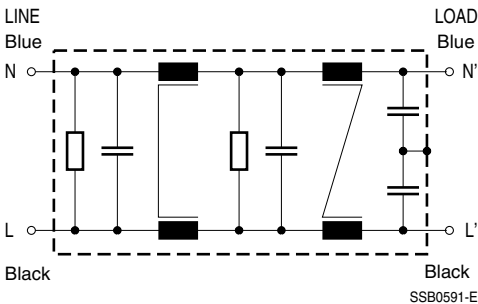
Marking

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



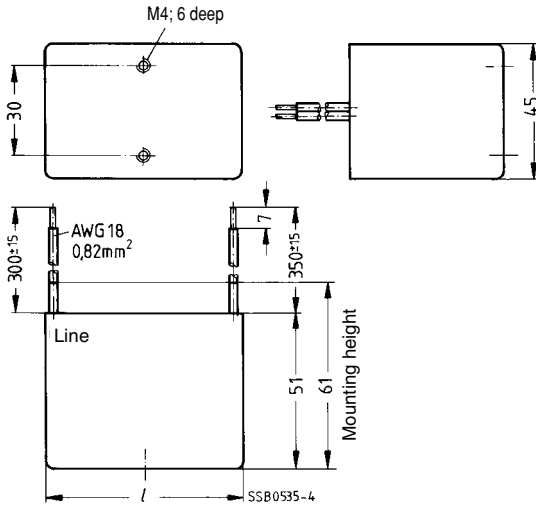
Technical data

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)

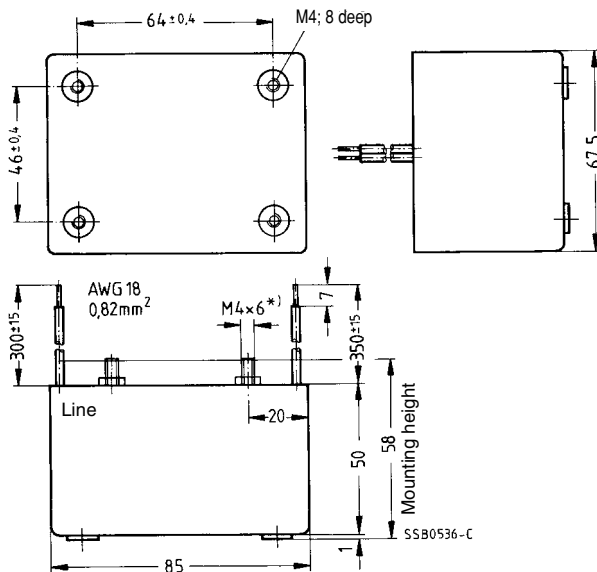
Characteristics and ordering codes

I_R	R_{typ}	Approx. weight 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

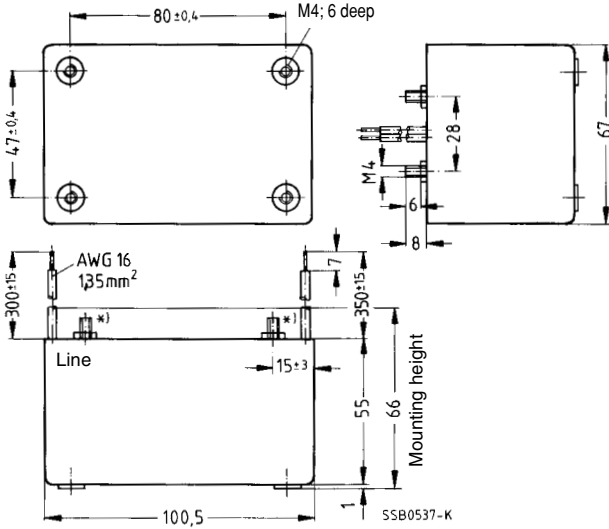
Dimensional drawings
B84299-K61-C, B84299-K62-C


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

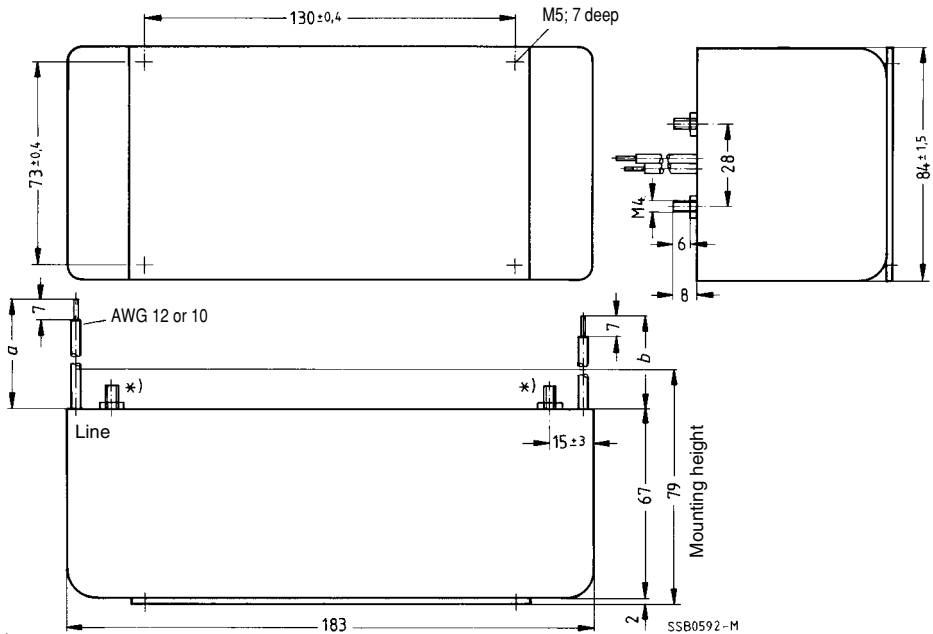
B84299-K64-C



Technical drawing of the SSB0538-T terminal block, showing dimensions and specifications:

- Top View:**
 - Overall width: $107 \pm 0,4$
 - Distance between mounting holes: $43 \pm 0,4$
 - Mounting holes: M4; 6 deep
- Side View:**
 - Overall height: 68
 - Mounting hole offset: 28
 - Terminal height: 6
 - Terminal width: 8
- Front View:**
 - Overall width: 132
 - Overall height: 81
 - Mounting height: 70
 - Terminal height: 7
 - Terminal width: 15 ± 3
 - Terminal specification: AWG14, $2,15 \text{ mm}^2$
 - Terminal type: Line
 - Terminal pitch: 1
 - Terminal material: SSB0538-T

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

Dimensional drawing
B84299-K66, B84299-K67


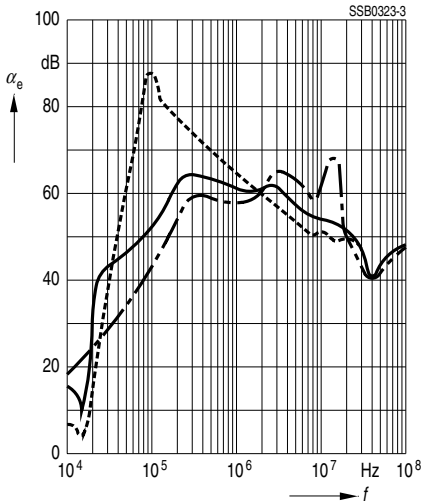
Type	Litz wire	Length l (mm)	
		a	b
B84299-K66	AWG 12; 3,44 mm ²	300 (line)	800
B84299-K67	AWG 10; 5,37 mm ²	240 (line)	800

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

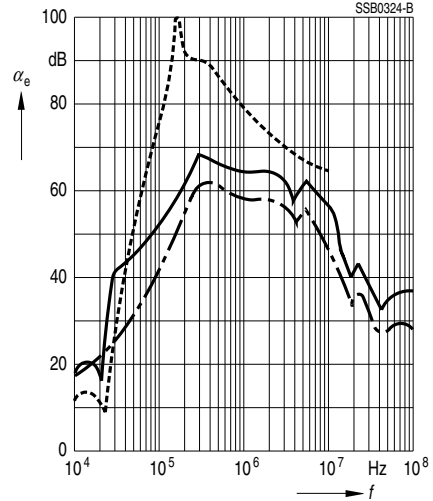
Insertion loss (typical values at $Z = 50 \Omega$)

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

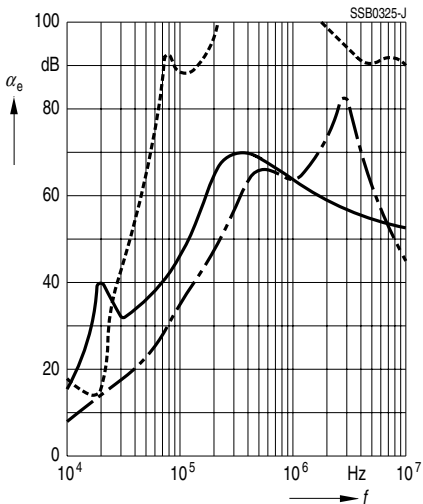
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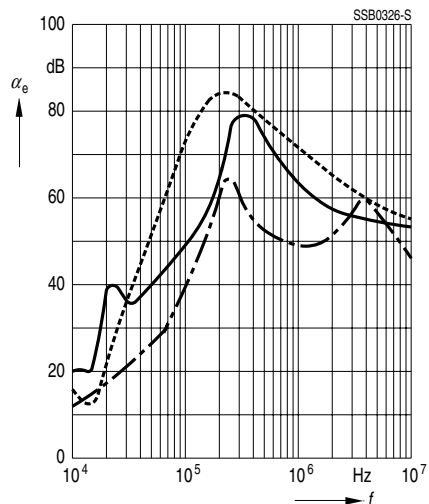
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B84299-K63



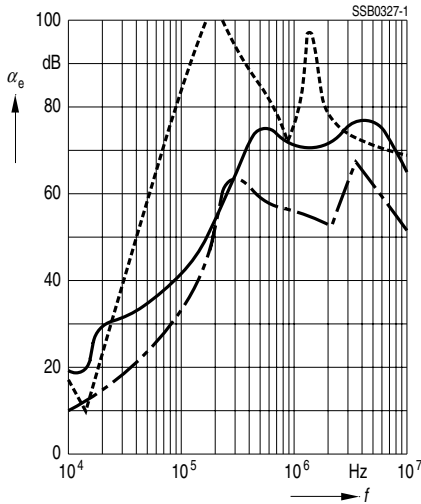
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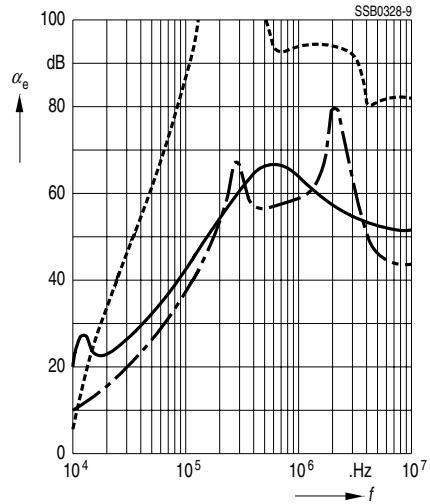
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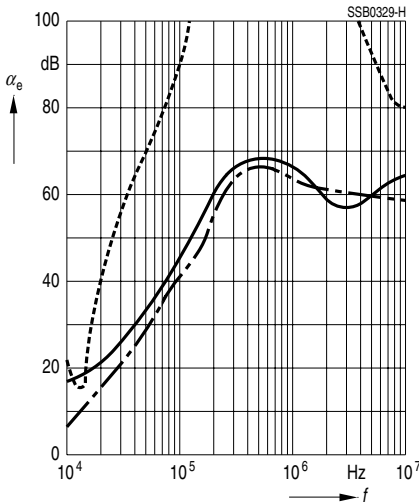
B84299-K65



B84299-K66



B84299-K67



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