



2-Line Filters

B84113

SIFI-C Series

SIFI-C for very high insertion loss
Rated voltage 250 V~, 50/60 Hz
Rated current 3 A to 10 A

Construction

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



Features

- Compact design
- Low leakage current
- All relevant approvals
- Cost-optimized construction
- Also for assembly on top-hat rails

Applications

- Switch-mode power supplies in
 - industrial electronics
 - telecommunications
 - data systems
 - medical engineering

Case styles and terminal styles

- Case style A Tab connectors on face ends, lateral mounting tabs. Particularly suitable for mounting on a shielding wall.
- Case style B Tab connectors on face ends, mounting tabs on face ends.
- Case style K IEC connector as per IEC 60320 C 14 on line side, tab connectors on load side, mounting holes with metric thread.
- Case style L Litz wires on face ends

Marking

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

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

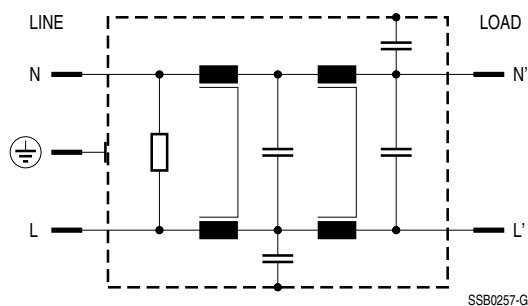


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Circuit diagram



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) 2700 V~, 2 s (lines/case)
Leakage current I_{leak}	< 0,5 mA at 230 V~, 50 Hz
Discharge resistors	The discharge resistors are rated such that one second after having disconnected the device from the power line, the voltage at the line connector should have dropped to 34 V.
Climatic category	In accordance with EN 60068-1 25/085/21 (- 25 °C/+ 85 °C/21 days damp heat test)
Approvals	

Characteristics and ordering codes

I_R	C_R	L_R	Case style	Appr. weight g	Ordering code	Mounting plate for top-hat rail (ordering code)
3	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 4,7 mH	A	210	B84113-C-A30	—
			B	210	B84113-C-B30	C62122-A132-B92
			K	270	B84113-C-K30	—
			L	210	B84113-C-L30	—
6	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 4,7 mH	A	510	B84113-C-A60	—
			B	510	B84113-C-B60	C62122-A132-B95
			L	510	B84113-C-L60	—
10	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 3,6 mH	A	690	B84113-C-A110	—
			B	690	B84113-C-B110	C62122-A132-B95
			L	690	B84113-C-L110	—



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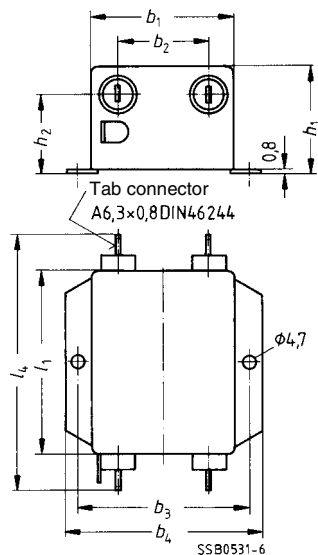
SIFI-C Series

Case styles and dimensions

Case style	Ordering code B84113-	Dimensions in mm											Litz mm ²	Style 1015
		<i>b</i> ₁	<i>b</i> ₂	<i>b</i> ₃	<i>b</i> ₄	<i>l</i> ₁	<i>l</i> ₂	<i>l</i> ₃	<i>l</i> ₄	<i>h</i> ₁	<i>h</i> ₂			
A	-C-A30	50,8	31,5	60,4	70	63,5	—	—	89,5	38,1	28	—	—	
B	-C-B30	50,8	31,5	—	—	63,5	74,7	84,5	89,5	38,1	28	—	—	
K	-C-K30	50,8	—	—	—	63,5	—	—	—	38	—	—	—	
L	-C-L30	50,8	—	—	—	63,5	74,7	84,5	—	38,1	—	0,82	AWG18	
A	-C-A60	see dimensional drawing											—	—
B	-C-B60	see dimensional drawing											—	—
L	-C-L60	50,8	—	—	—	133	142,9	153	—	44,5	—	0,82	AWG18	
A	-C-A110	see dimensional drawing											—	—
B	-C-B110	see dimensional drawing											—	—
L	-C-L110	50,8	—	—	—	133	142,9	153	—	44,5	—	1,35	AWG16	

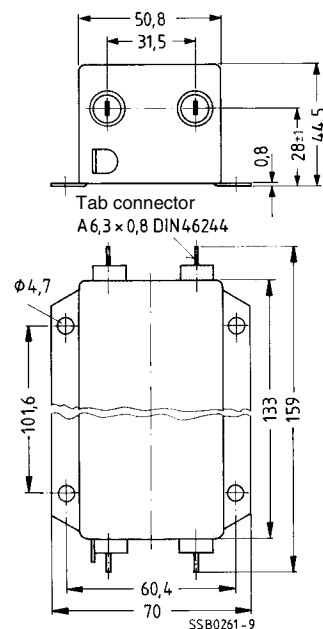
Case style A

B84113-C-A30



Case style A

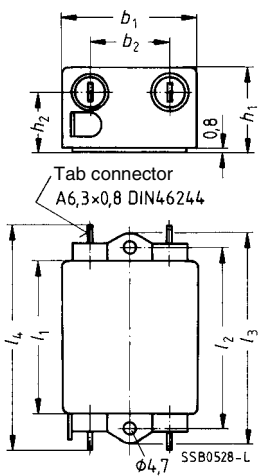
B84113-C-A60
B84113-C-A110





Case style B

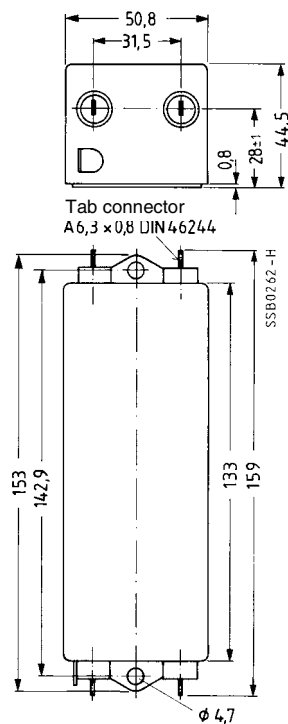
B84113-C-B30



Case style B

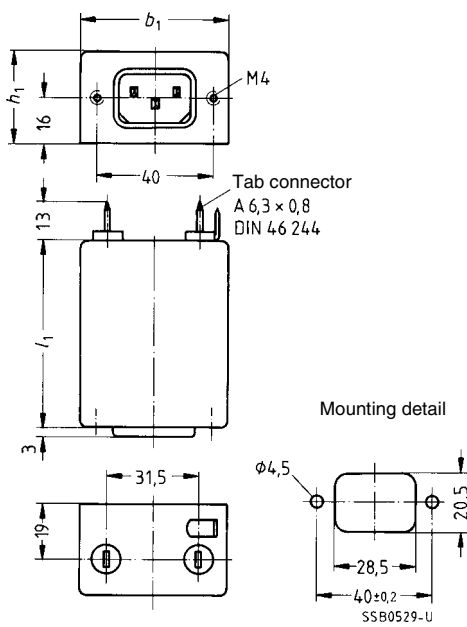
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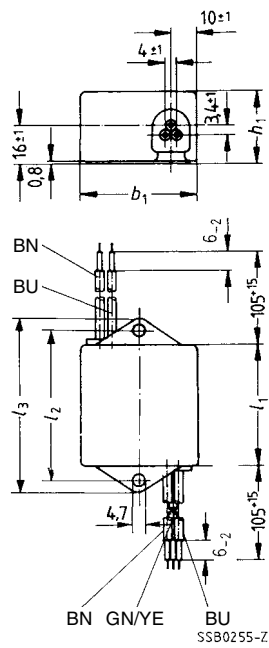




Case style K



Case style L

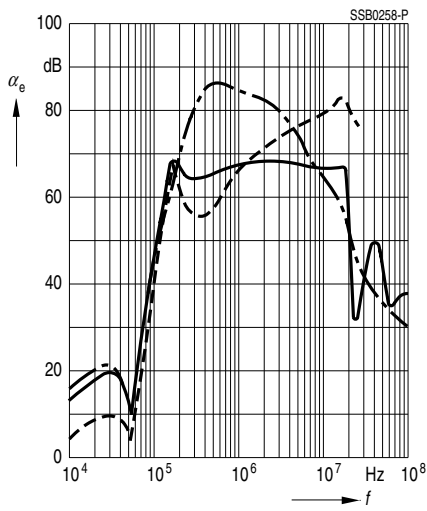




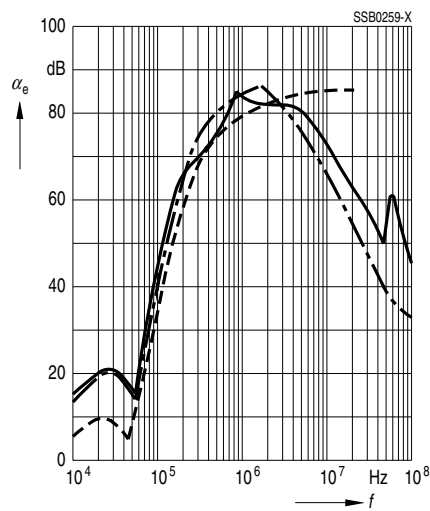
Insertion loss (typical values at $Z = 50 \Omega$)

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

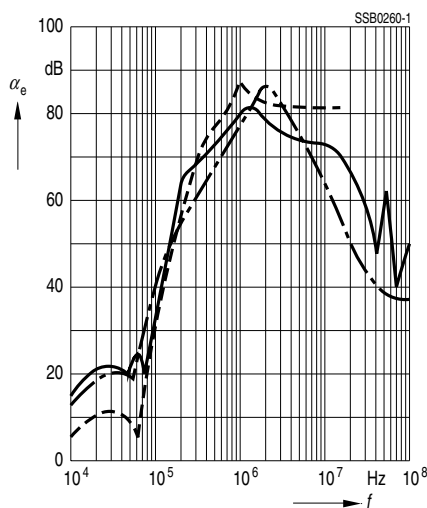
B84113-C- \times 30



B84113-C- \times 60



B84113-C- \times 110



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