



2-Line Filters

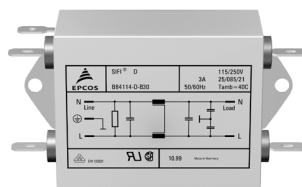
B84114

SIFI-D Series

SIFI-D for high insertion loss
Rated voltage 250 V~, 50/60 Hz
Rated current 1 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

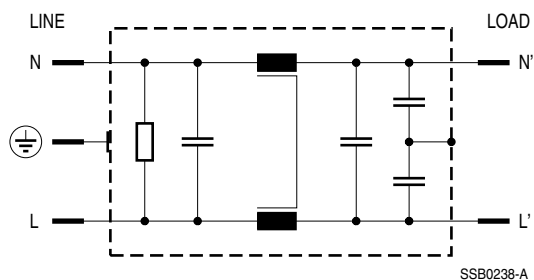


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Circuit diagram



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	



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Characteristics and ordering codes

I_R A	C_R	L_R	Case style	Appr. weight g	Ordering code	Mounting plate for top-hat rail (ordering code)
1	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 5,6 mH	A	150	B84114-D-A10	—
			B	150	B84114-D-B10	C62122-A132-B92
			K	210	B84114-D-K10	—
			L	150	B84114-D-L10	—
2	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 5,6 mH	A	150	B84114-D-A20	—
			B	150	B84114-D-B20	C62122-A132-B92
			L	150	B84114-D-L20	—
3	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 5,6 mH	A	150	B84114-D-A30	—
			B	150	B84114-D-B30	C62122-A132-B92
			K	210	B84114-D-K30	—
			L	150	B84114-D-L30	—
6	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 4,7 mH	A	230	B84114-D-A60	—
			B	230	B84114-D-B60	C62122-A132-B93
			K	290	B84114-D-K60	—
			L	230	B84114-D-L60	—
10	2 × 0,68 µF (X2) + 2 × 4700 pF (Y2)	2 × 4,7 mH	A	420	B84114-D-A110	—
			B	420	B84114-D-B110	C62122-A132-B94
			L	420	B84114-D-L110	—



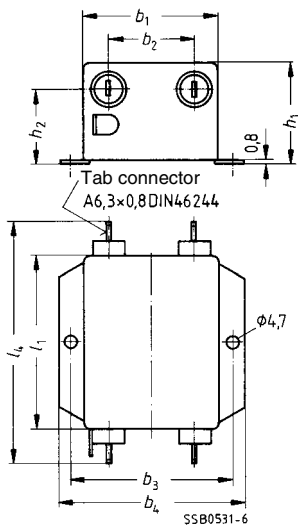
Case styles and dimensions

Case style	Ordering code B84114-	Dimensions in mm											
		b_1	b_2	b_3	b_4	l_1	l_2	l_3	l_4	h_1	h_2	Litz mm ²	Style 1015
A	-D-A10	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-D-B10	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
K	-D-K10	50,8	—	—	—	79,5	—	—	—	32	—	—	—
L	-D-L10	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-D-A20	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-D-B20	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
L	-D-L20	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-D-A30	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-D-B30	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
K	-D-K30	50,8	—	—	—	79,5	—	—	—	32	—	—	—
L	-D-L30	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-D-A60	50,8	31,5	60,4	70	75,5	—	—	101,5	31,8	20	—	—
B	-D-B60	50,8	31,5	—	—	75,5	87,1	97	101,5	31,8	20	—	—
K	-D-K60	50,8	—	—	—	92,5	—	—	—	32	—	—	—
L	-D-L60	50,8	—	—	—	75,5	87,1	97	—	31,8	—	0,82	AWG18
A	-D-A110	see dimensional drawing											
B	-D-B110	see dimensional drawing											
L	-D-L110	50,8	—	—	—	92	103,1	113	—	44,5	—	1,35	AWG16



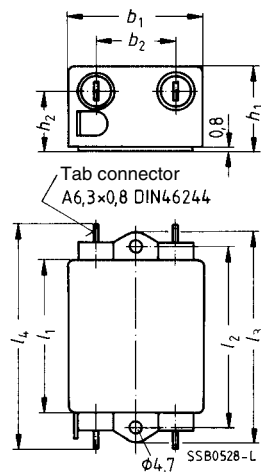
Case style A

B84114-D-A10 ... B84114-D-A60

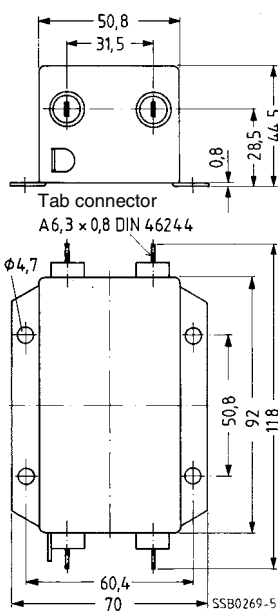


Case style B

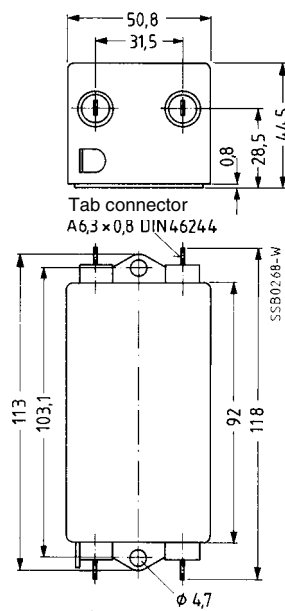
B84114-D-B10 ... B84114-D-B60



B84114-D-A110

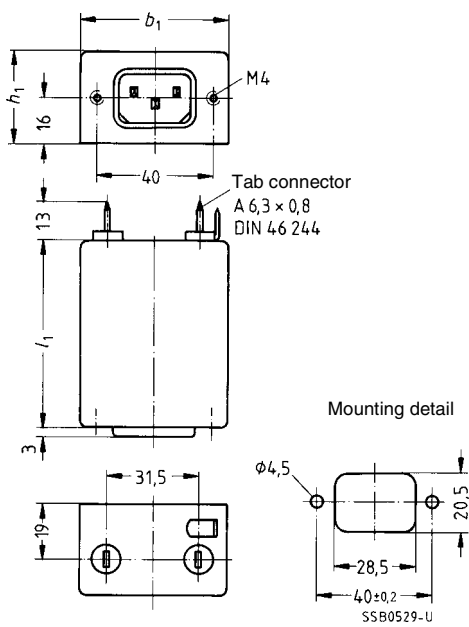


B84114-D-B110

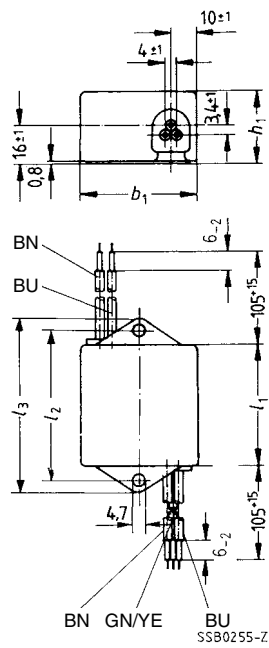




Case style K



Case style L

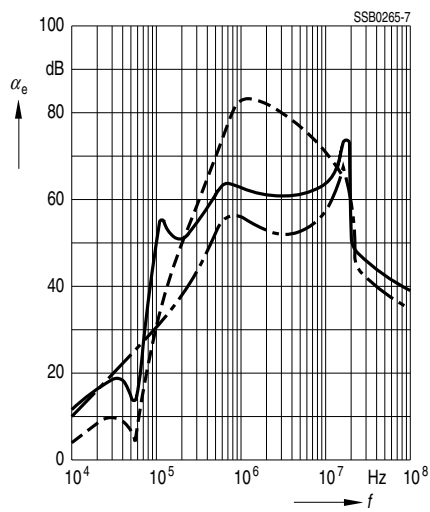




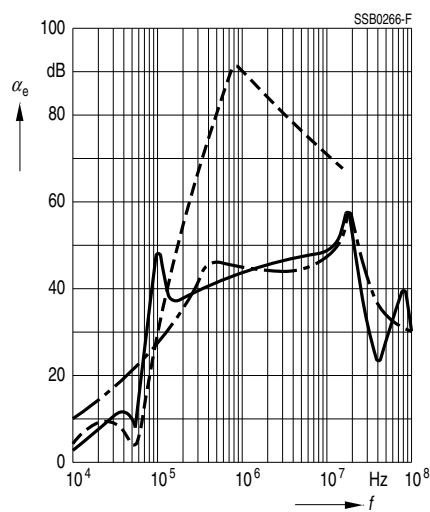
Insertion loss (typical values at $Z = 50 \Omega$)

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

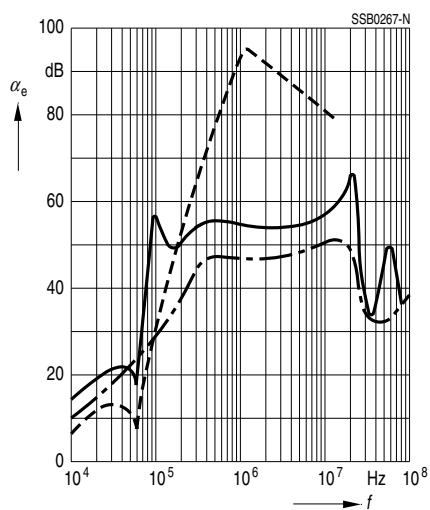
B84114-D-*10 ... B84114-D-*30



B84114-D-*60



B84114-D-*110



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