

SIFI-B for enhanced attenuation
Rated voltage 250 Vac, 50/60 Hz
Rated current 1 A to 20 A

Construction

- Two-line filter
- Aluminum case

Features

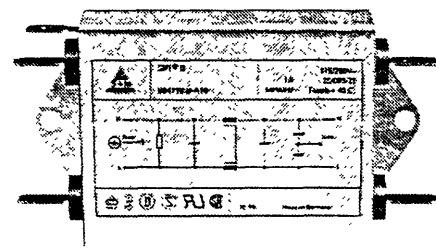
- Compact design
- Low leakage current
- All relevant marks of conformity
- Cost-optimized construction

Applications

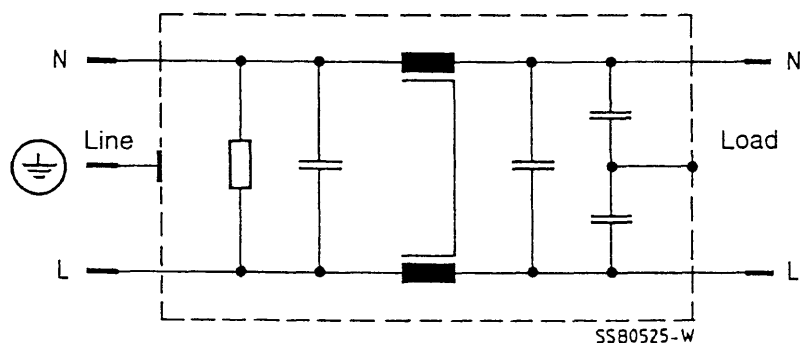
- Switch-mode power supplies in
 - industrial electronics
 - telecommunications
 - data systems
 - medical engineering

Terminals

Various terminal styles
depending on case styles A, B, K, L, P



Circuit diagram



Technical data

Rated voltage V_R	250 Vac, 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_P	1414 Vdc, 2 s (line/line) 2700 Vdc, 2 s (lines/case)
Leakage current I_{leak}	< 0,5 mA at 250 Vac, 50 Hz
Climatic category	In accordance with IEC 68-1 25/085/21 (– 25 °C/+ 85 °C/21 days damp heat test)

Characteristics and ordering codes

I_R	C_R	L_R	Case style	Appr. weight g	Ordering code	Approvals					
A											
1	2 × 0,15 µF (X2) + 2 × 4700 pF (Y2)	2 × 10 mH	A	110	B84112-B-A10	x	x	x	x	x	x
			B	110	B84112-B-B10	x	x	x	x	x	x
			K	140	B84112-B-K10	x	x	x	x	x	x
			L	110	B84112-B-L10	x	x	x	x	x	x
2	2 × 0,15 µF (X2) + 2 × 4700 pF (Y2)	2 × 10 mH	A	110	B84112-B-A20	x	x	x	x	x	x
			B	110	B84112-B-B20	x	x	x	x	x	x
			L	110	B84112-B-L20	x	x	x	x	x	x
3	2 × 0,22 µF (X2) + 2 × 4700 pF (Y2)	2 × 10 mH	A	140	B84112-B-A30	x	x	x	x	x	x
			B	140	B84112-B-B30	x	x	x	x	x	x
			K	210	B84112-B-K30	x	x	x	x	x	x
			L	140	B84112-B-L30	x	x	x	x	x	x
			P	140	B84112-B-P30	x	x	x	–	x	x
6	2 × 0,33 µF (X2) + 2 × 4700 pF (Y2)	2 × 3,3 mH	A	150	B84112-B-A60	x	x	x	x	x	x
			B	150	B84112-B-B60	x	x	x	x	x	x
			K	210	B84112-B-K60	x	x	x	x	x	x
			L	150	B84112-B-L60	x	x	x	x	x	x
10	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	2 × 1,8 mH	A	200	B84112-B-A110	x	x	x	x	x	x
			B	200	B84112-B-B110	x	x	x	x	x	x
			L	200	B84112-B-L110	x	x	x	x	x	x
20	2 × 0,68 µF (X2) + 2 × 4700 pF (Y2)	2 × 1,8 mH	A	700	B84112-B-A120	x	x	x	x	x	x
			B	700	B84112-B-B120	x	x	x	x	x	x

x = mark of conformity granted

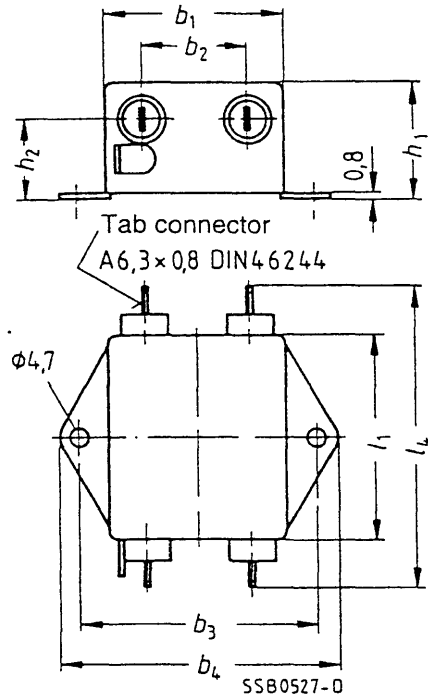
Case styles and dimensions

Case style	Ordering code B84112-	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	-B-A10	45	26,5	60,4	70	50	—	—	76,5	28,6	20	—	—
B	-B-B10	45	26,5	—	—	50	60,4	70	76,5	28,6	20	—	—
K	-B-K10	51	—	—	—	63,5	—	—	—	32	—	—	—
L	-B-L10	45	—	—	—	50	60,4	70	—	28,6	—	0,82	AWG18
A	-B-A20	45	26,5	60,4	70	50	—	—	76,5	28,6	20	—	—
B	-B-B20	45	26,5	—	—	50	60,4	70	76,5	28,6	20	—	—
L	-B-L20	45	—	—	—	50	60,4	70	—	28,6	—	0,82	AWG18
A	-B-A30	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-B-B30	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
K	-B-K30	50,8	—	—	—	79,5	—	—	—	32	—	—	—
L	-B-L30	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
P	-B-P30	See outline drawing											
A	-B-A60	50,8	31,5	60,4	70	63,5	—	—	89,5	28,6	20	—	—
B	-B-B60	50,8	31,5	—	—	63,5	74,7	84,5	89,5	28,6	20	—	—
K	-B-K60	50,8	—	—	—	79,5	—	—	—	32	—	—	—
L	-B-L60	50,8	—	—	—	63,5	74,7	84,5	—	28,6	—	0,82	AWG18
A	-B-A110	50,8	31,5	60,4	70	63,5	—	—	89,5	38,1	28	—	—
B	-B-B110	50,8	31,5	—	—	63,5	74,7	84,5	89,5	38,1	28	—	—
L	-B-L110	50,8	—	—	—	63,5	74,7	84,5	—	38,1	—	1,35	AWG16
A	-B-A120	See outline drawing											
B	-B-B120												

Case style A

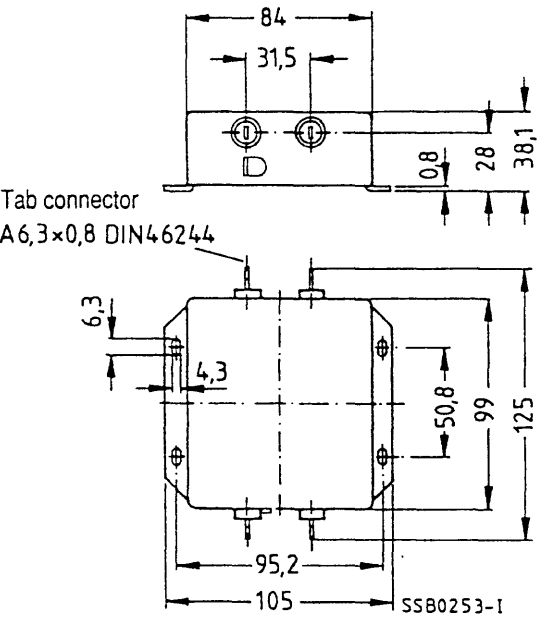
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B84112-B-A110



Case style A

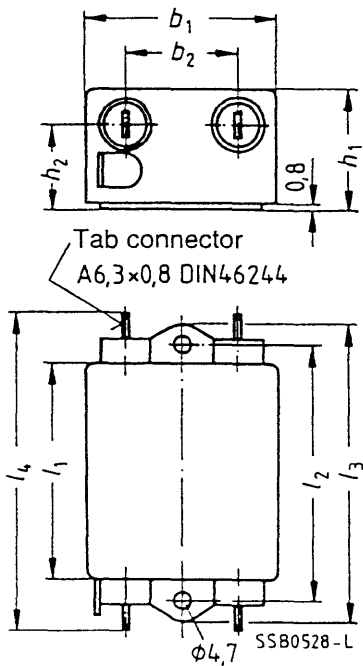
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Case style B

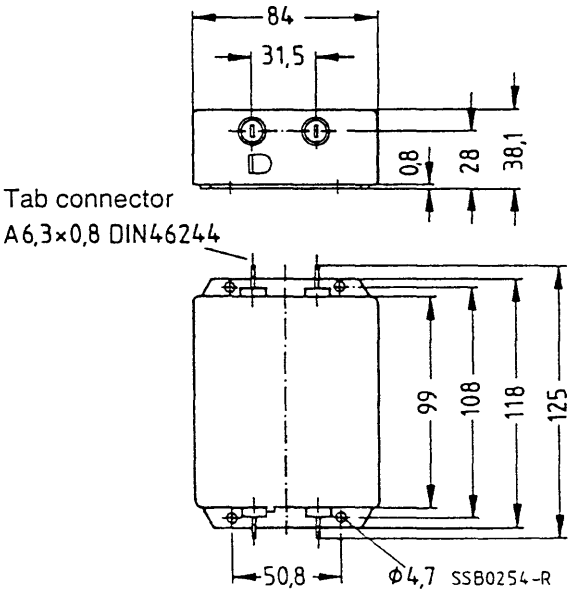
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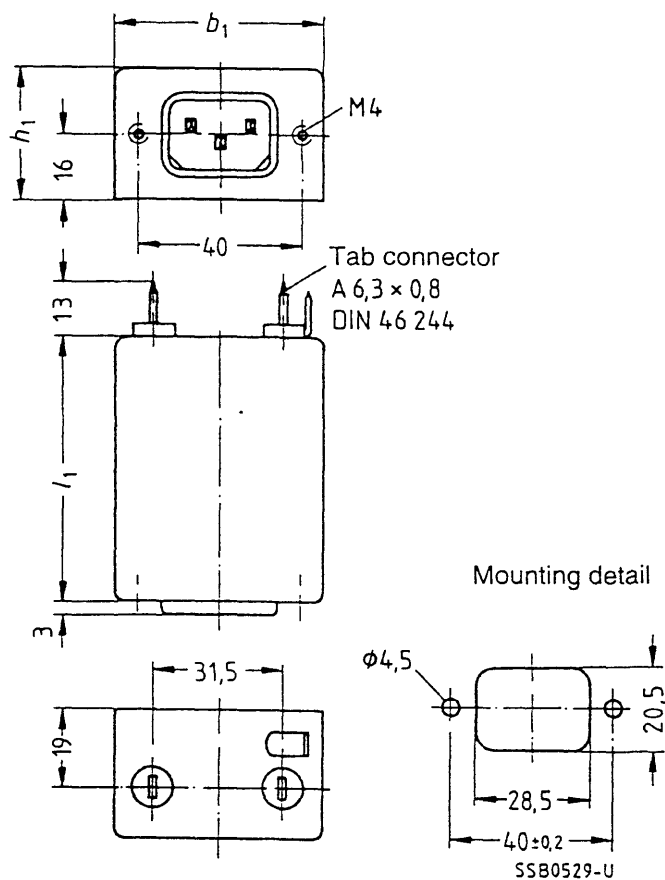


Case style B

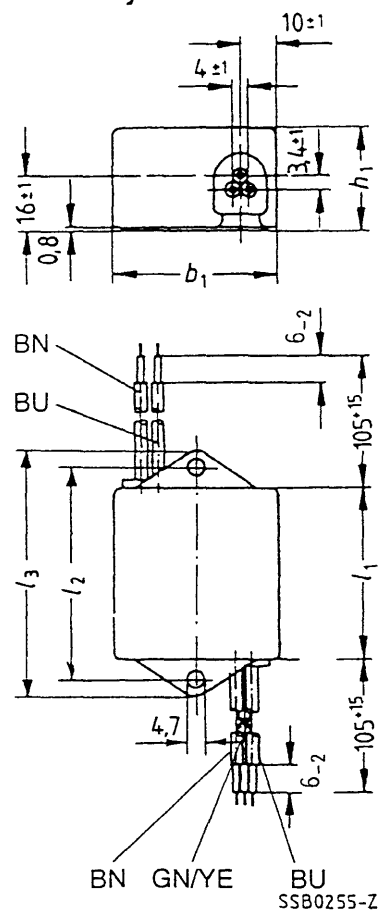
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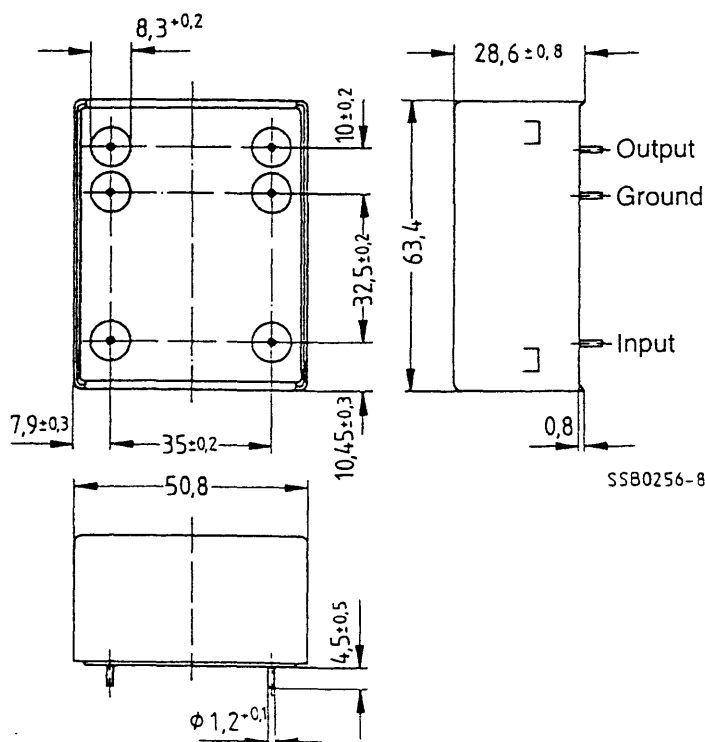
Case style K



Case style L



Case style P

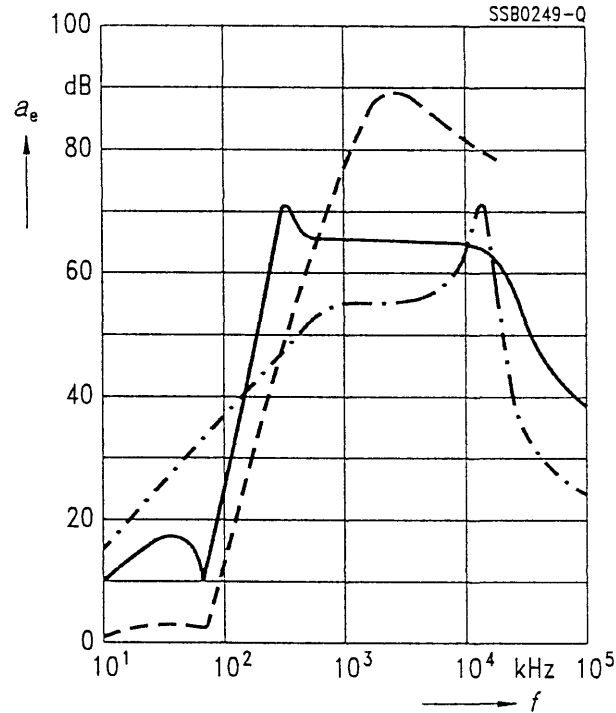


Insertion loss (typical values at $Z = 50 \Omega$)

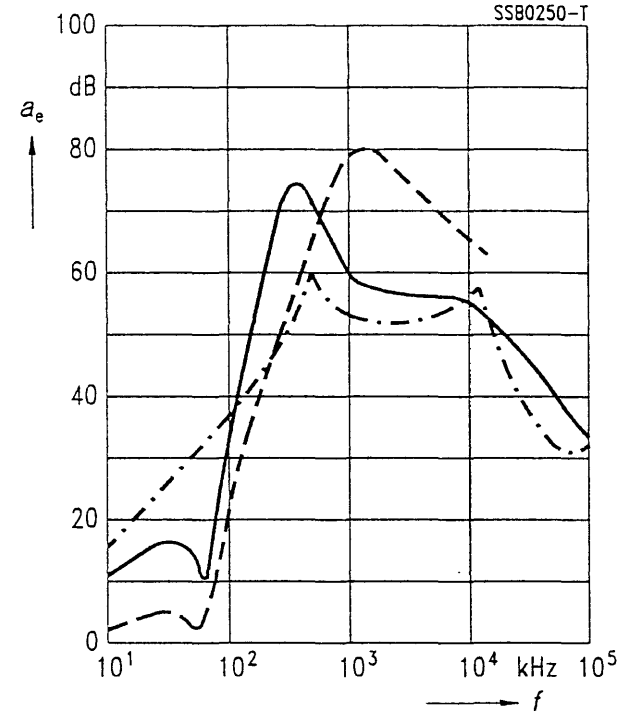
- unsymmetrical, adjacent branches terminated
- . - . - . asymmetrical, all branches in parallel (common mode)
- - - - symmetrical (differential mode)

B84112-B-*10

B84112-B-*20

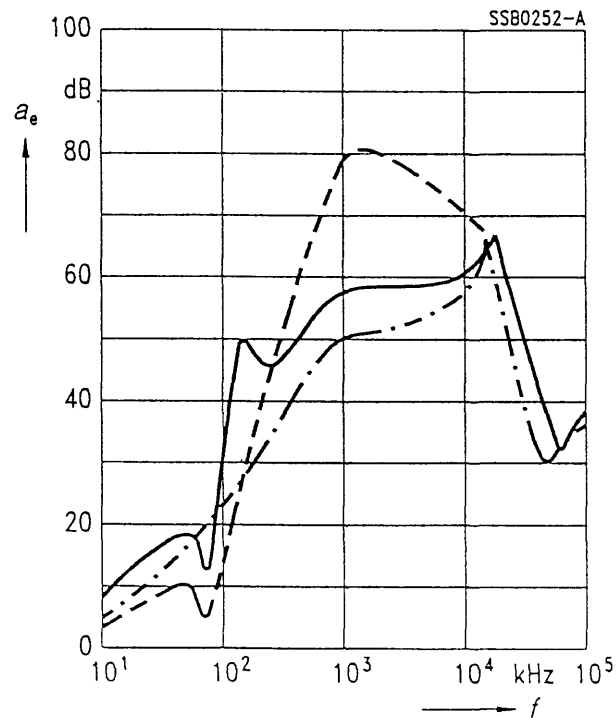


B84112-B-*30



B84112-B-*60

B84112-B-*110



B84112-B-*120

