

## General-Purpose Filters SIFI-C Series

B84113

**SIFI-C for very high attenuation**  
Rated voltage 250 Vac, 50/60 Hz  
Rated current 3 A to 10 A

### Construction

- Two-line filter
- Aluminum case

### Features

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

### Applications

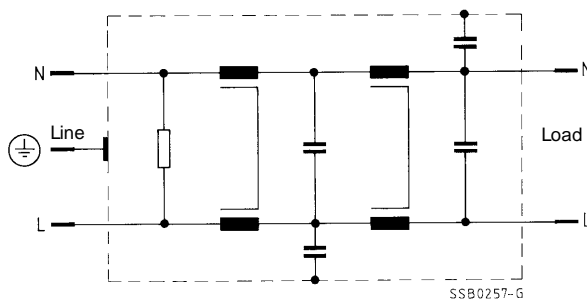
- Switch-mode power supplies in
  - industrial electronics
  - telecommunications
  - data systems
  - medical engineering

### Terminals

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



### Circuit diagram



**General-Purpose Filters  
SIFI-C Series**

**B84113**

**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 3	2 × 0,47 µF (X2) + 2 × 4700 pF (Y2)	4 × 4,7 mH	A	210	B84113-C-A30	×	×	×	×	×	×
			B	210	B84113-C-B30	×	×	×	×	×	×
			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	×	×	×	×	×	×
			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	×	×	×	×	×	×
			L	690	B84113-C-L110	×	×	×	×	×	×

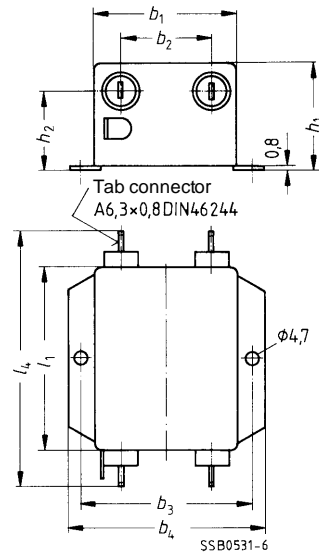
× = mark of conformity granted

**Case styles and dimensions**

Case style	Ordering code B84113-	Dimensions in mm											Litz mm <sup>2</sup>	Style 1015
		$b_1$	$b_2$	$b_3$	$b_4$	$l_1$	$l_2$	$l_3$	$l_4$	$h_1$	$h_2$			
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 outline drawing											—	—
B	-C-B60	See outline drawing											—	—
L	-C-L60	50,8	—	—	—	133	142,9	153	—	44,5	—	0,82	AWG18	
A	-C-A110	See outline drawing											—	—
B	-C-B110	See outline drawing											—	—
L	-C-L110	50,8	—	—	—	133	142,9	153	—	44,5	—	1,35	AWG16	

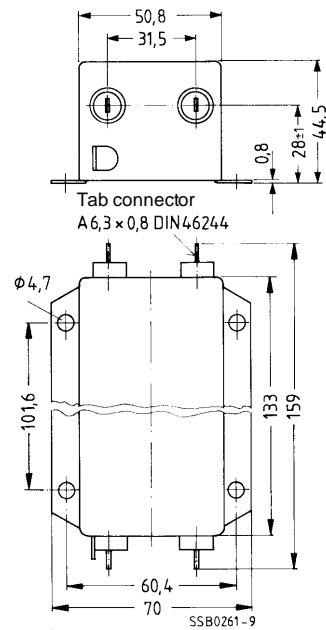
**Case style A**

B84113-C-A30



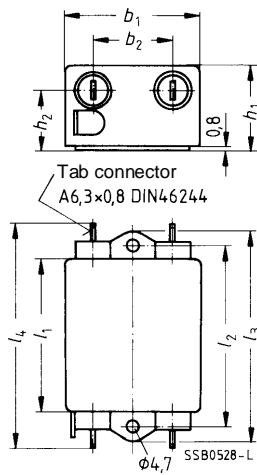
**Case style A**

B84113-C-A60  
B84113-C-A110



**Case style B**

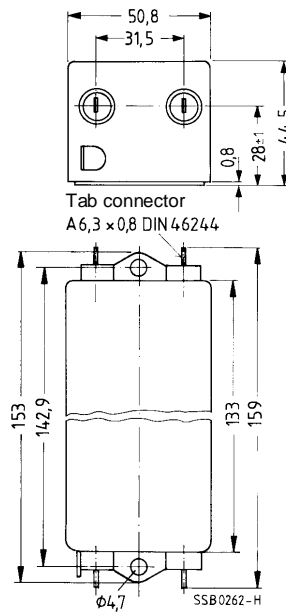
B84113-C-B30



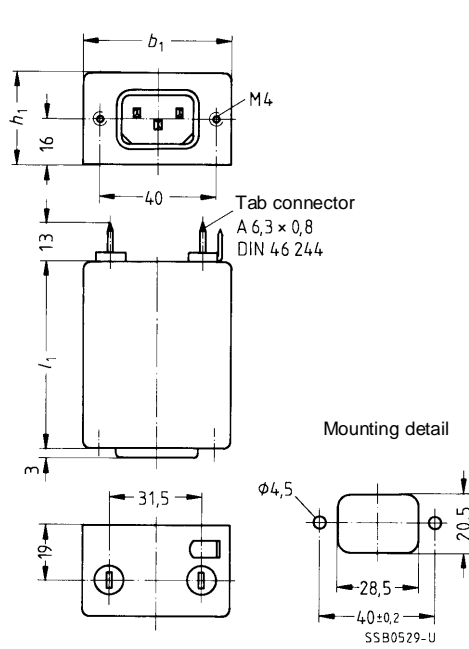
**Case style B**

B84113-C-B60

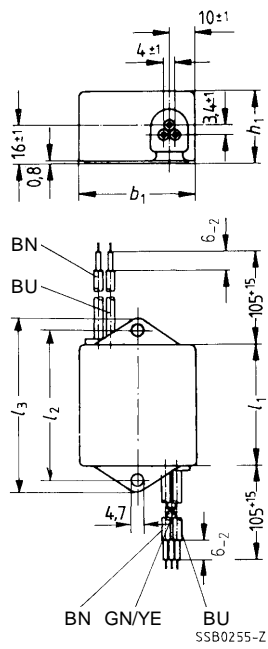
B84113-C-B110



Case style K



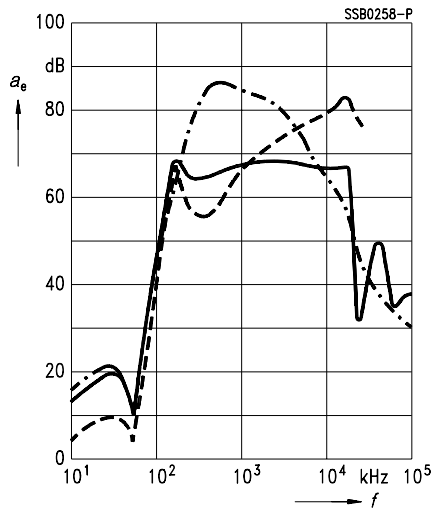
Case style L



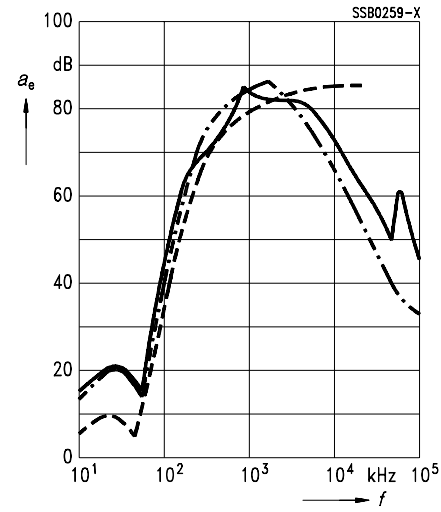
**Insertion loss** (typical values at  $Z = 50 \Omega$ )

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

B84113-C-\*30



B84113-C-\*60



B84113-C-\*110

