

Power line filters for 1-phase systems
Rated voltage 250 V DC/AC, 50/60 Hz
Rated current 1 to 20 A


Alternative version

- Series B84111F (SIFI-F) offers a low-cost solution

Construction

- 2-line filters
- Metal case
- Polyurethane potting (UL 94 V-0)

Features

- Compact design
- Optimized leakage current
- Cost-optimized construction
- Also for assembly on top-hat rails
- ENEC10, UL and CSA approval 

Applications

- Switch-mode power supplies in
 - industrial electronics
 - telecommunications
 - data systems
 - medical equipment
- DC applications

Case styles and terminal styles

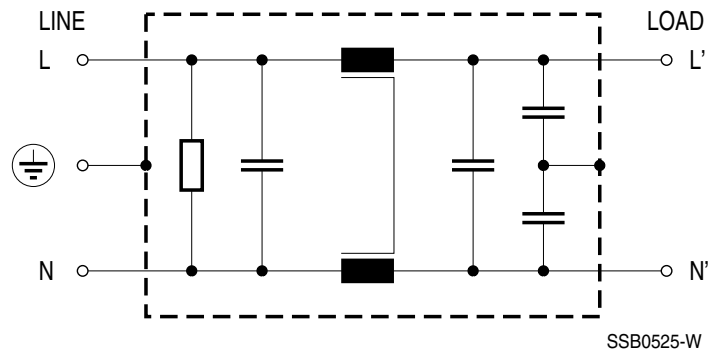
- | | |
|--------------|--|
| Case style A | Tab connectors on face ends, lateral fixing lugs.
Particularly suitable for mounting on a shielding wall. |
| Case style B | Tab connectors on face ends, fixing lugs on face ends. |
| Case style K | IEC connector as per IEC 60320 C 14 on line side,
tab connectors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

Marking

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

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



Circuit diagram

Technical data and measuring conditions

Rated voltage V_R	250 V DC/AC 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_{test}	1414 V DC, 2 s (line/line) 2700 V DC, 2 s (lines/case)
Leakage current I_{leak}	At 230 V AC, 50 Hz
Climatic category (IEC 60068-1)	25/085/21 (-25 °C/+85 °C/21 days damp heat test)
Approvals	EN 133200, UL 1283, CSA C22.2 No.8

Characteristics and ordering codes

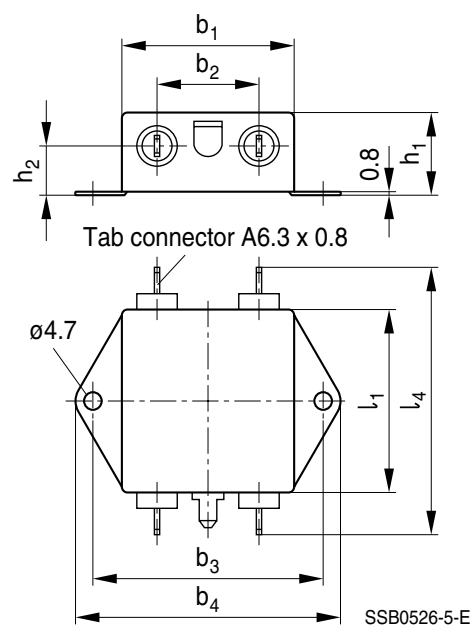
I_R	C_R	L_R	I_{leak}	Case style	Approx. weight g	Ordering code	Mounting plate for top-hat rail (ordering code)
A		mH	mA				
$V_R = 250$ V DC/AC, 50/60 Hz							
1	$2 \times 0.1 \mu\text{F}$ (X2) + 2×4700 pF (Y2)	2×1.5	< 0.5	A	80	B84111A0000A010	—
				K	140	B84111A0000K010	—
2	$2 \times 0.1 \mu\text{F}$ (X2) + 2×4700 pF (Y2)	2×1.5	< 0.5	A	80	B84111A0000A020	—
3	$2 \times 0.1 \mu\text{F}$ (X2) + 2×4700 pF (Y2)	2×1.5	< 0.5	A	80	B84111A0000A030	—
				K	140	B84111A0000K030	—
				L	80	B84111A0000L030	—
6	$2 \times 0.1 \mu\text{F}$ (X2) + 2×4700 pF (Y2)	2×1.8	< 0.5	A	110	B84111A0000A060	—
				B	110	B84111A0000B060	C62122A0132B091
				K	140	B84111A0000K060	—
				L	110	B84111A0000L060	—
10	$2 \times 0.1 \mu\text{F}$ (X2) + 2×4700 pF (Y2)	0.82	< 0.5	A	120	B84111A0000A110	—
				B	120	B84111A0000B110	C62122A0132B091
				L	120	B84111A0000L110	—
20	$2 \times 0.1 \mu\text{F}$ (X2) + 2×4700 pF (Y2)	2×0.47	< 0.5	A	210	B84111A0000A120	—
				B	210	B84111A0000B120	C62122A0132B091

Case styles and dimensions

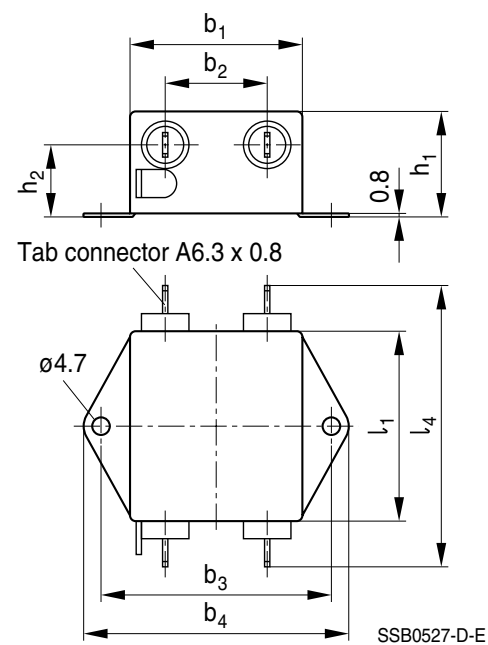
Case style	l_R A	Dimensions (mm)											Litz mm ²	Style 1015
		b_1	b_2	b_3	b_4	l_1	l_2	l_3	l_4	h_1	h_2			
A	1	45	26.5	60.4	70	50	—	—	76.5	22.3	14	—	—	
K	1	51	—	—	—	63.5	—	—	—	32	—	—	—	
A	2	45	26.5	60.4	70	50	—	—	76.5	22.3	14	—	—	
A	3	45	26.5	60.4	70	50	—	—	76.5	22.3	14	—	—	
K	3	51	—	—	—	63.5	—	—	—	32	—	—	—	
L	3	45	—	—	—	50	60.4	70	—	28.6	—	0.82	AWG18	
A	6	45	26.5	60.4	70	50	—	—	76.5	28.6	20	—	—	
B	6	45	26.5	—	—	50	60.4	70	76.5	28.6	20	—	—	
K	6	51	—	—	—	63.5	—	—	—	32	—	—	—	
L	6	45	—	—	—	50	60.4	70	—	28.6	—	0.82	AWG18	
A	10	45	26.5	60.4	70	50	—	—	76.5	28.6	20	—	—	
B	10	45	26.5	—	—	50	60.4	70	76.5	28.6	20	—	—	
L	10	45	—	—	—	50	60.4	70	—	28.6	—	1.35	AWG16	
A	20	See dimensional drawing											—	—
B	20													

Case style A

1 ... 3 A (B84111A0000A010, A020, A030)

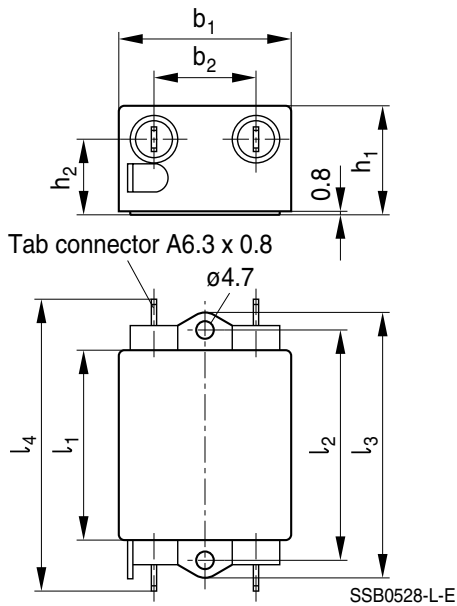

Case style A

6 ... 20 A (B84111A0000A060, A110, A120)



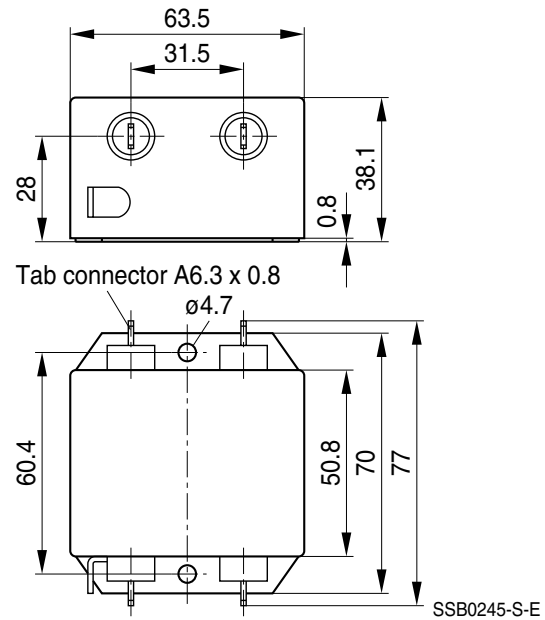
Case style B

6 and 10 A (B84111A0000B060, B110)

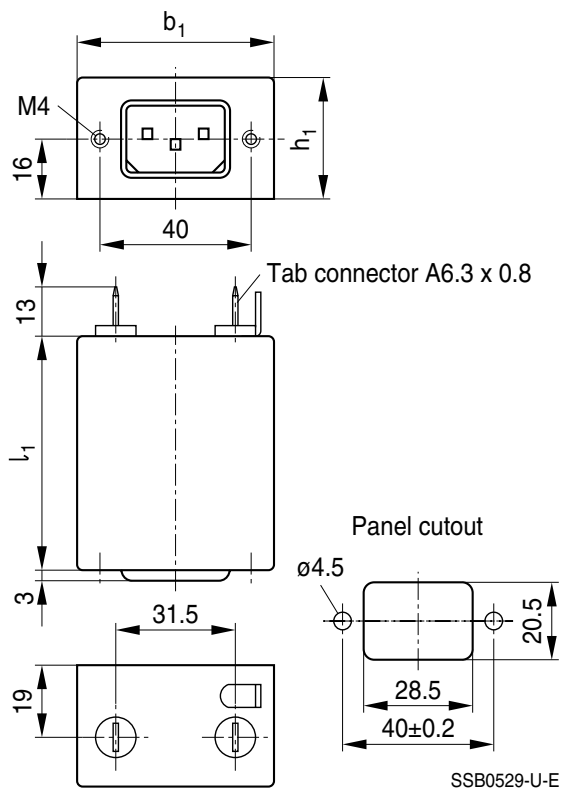


Case style B

20 A (B84111A0000B120)



Case style K



Case style L

