

**Power line filters for single-phase systems**  
**Rated voltage 250 V~, 50/60 Hz**  
**Rated current 1 to 6 A**

### Construction

- Plastic case
- Filter comprises current-compensated choke

### Features

- High insertion loss

### Applications

- Industrial equipment and small-size systems

### Terminals

- Safe-to-touch terminal blocks

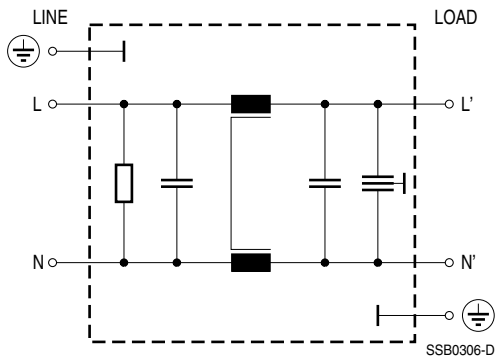
### Marking

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

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



### Circuit diagram



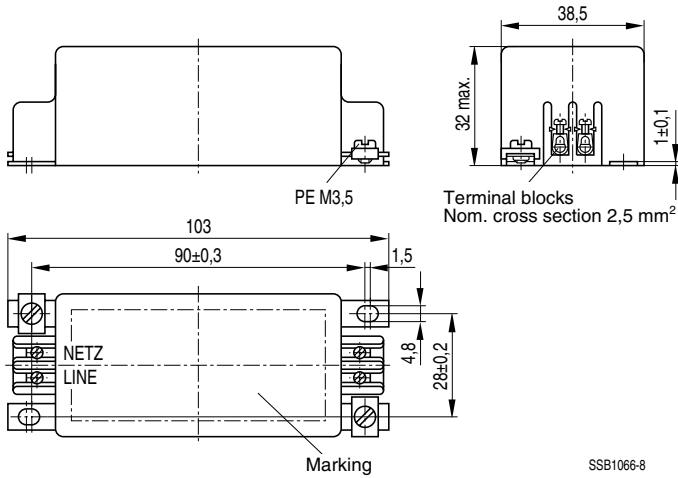
**Technical data**

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| 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)<br>2700 V~, 2 s, (lines/ground)                           |
| Leakage current $I_{leak}$ | at 230 V~, 50 Hz                                                                    |
| Climatic category          | In accordance with EN 60068-1<br>25/085/21 (– 25 °C/+ 85 °C/21 days damp heat test) |
| Weight                     | approx. 250 g                                                                       |

**Characteristics and ordering codes**

| $I_R$<br>A | $C_R$                                      | $L_R$<br>mH | $I_{leak}$<br>mA | Ordering code |
|------------|--------------------------------------------|-------------|------------------|---------------|
| 1          | 2 × 0,22 µF (X2)<br>+<br>2 × 2500 pF (Y2)  | 2 × 18      | < 0,5            | B84102-K30    |
| 2          | 2 × 0,33 µF (X2)<br>+<br>2 × 2500 pF (Y2)  | 2 × 10      | < 0,5            | B84102-K40    |
| 4          | 2 × 0,47 µF (X2)<br>+<br>2 × 2500 pF (Y2)  | 2 × 4,7     | < 0,5            | B84102-K50    |
| 6          | 2 × 0,47 µF (X2)<br>+<br>2 × 0,035 µF (Y2) | 2 × 2,2     | < 3,5            | B84102-K160   |

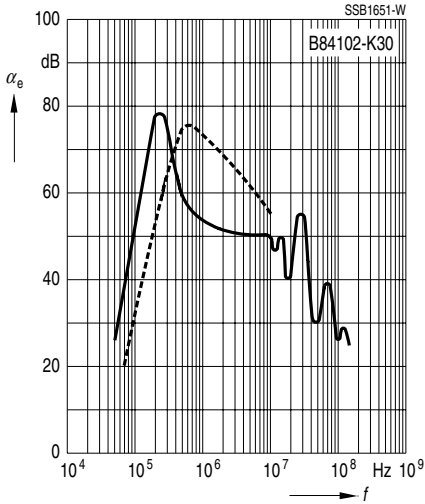
Dimensional drawing



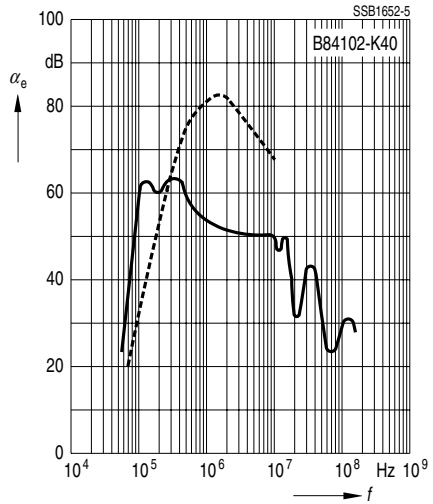
**Insertion loss** (typical values at  $Z = 50 \Omega$ )

————— unsymmetrical, adjacent branches terminated  
 - - - - - differential mode (symmetrical)

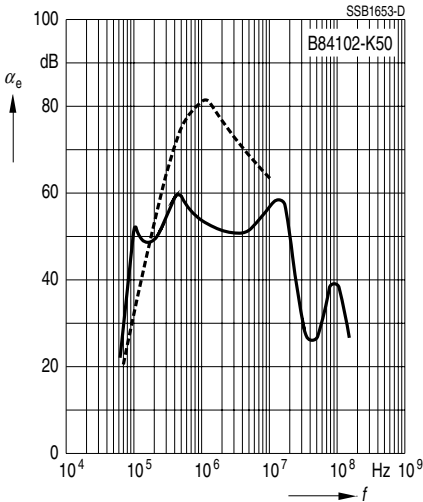
**B84102-K30**



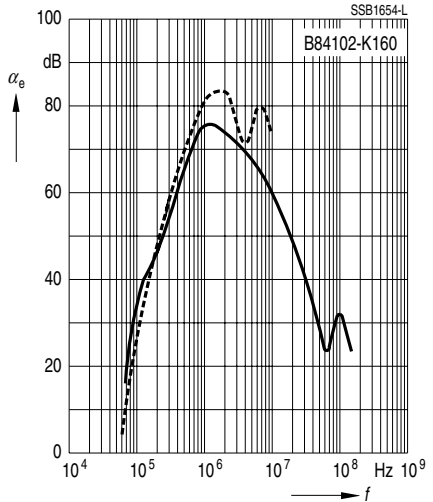
**B84102-K40**



**B84102-K50**



**B84102-K160**



## **Herausgegeben von EPCOS AG**

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