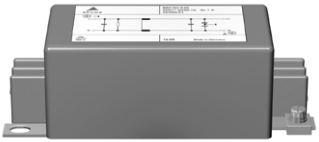
Power line filters for single-phase systems
Rated voltage 250 V~, 50/60 Hz
Rated current 1 to 6 A



Construction

- Plastic case
- Filter comprises current-compensated choke

Features

- High insertion loss

Applications

- Industrial equipment and small-size systems

Terminals

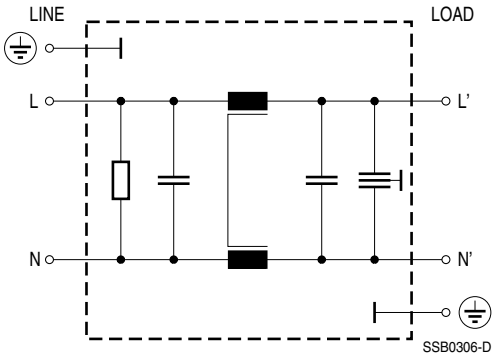
- Safe-to-touch terminal blocks

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



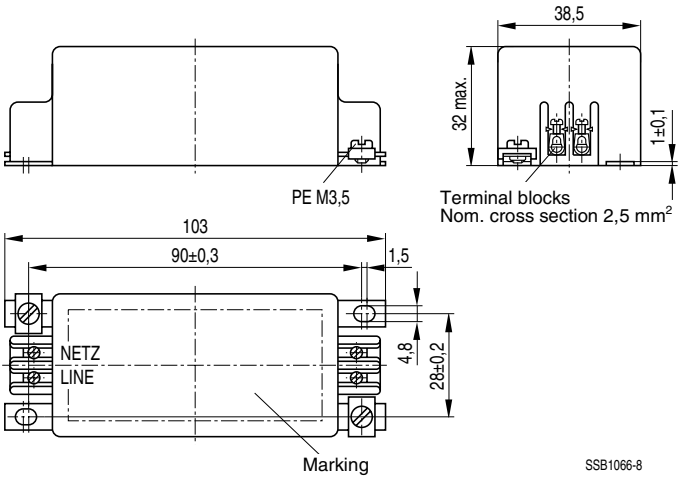
Technical data

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

Characteristics and ordering codes

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

Dimensional drawing

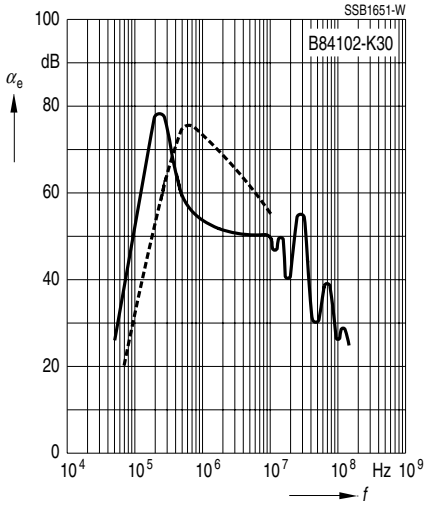


Insertion loss (typical values at Z = 50 Ω)

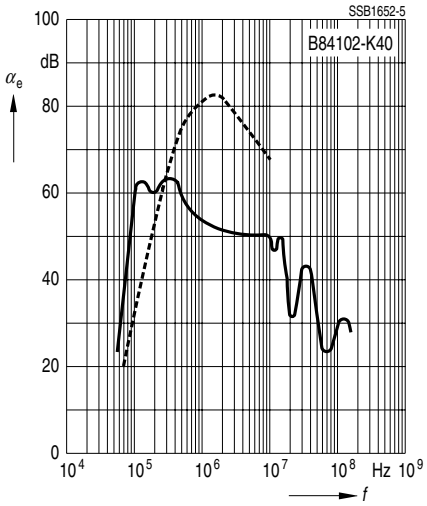
——————— unsymmetrical, adjacent branches terminated

– – – – – – – – differential mode (symmetrical)

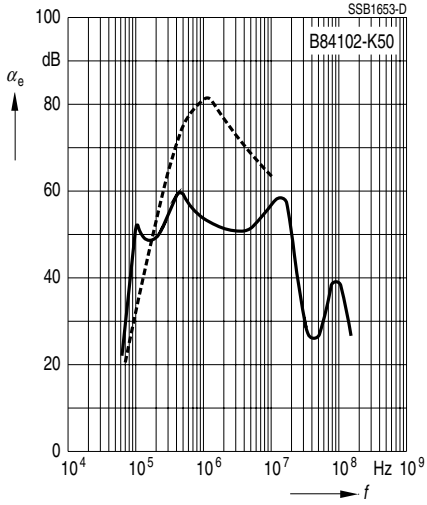
B84102-K30



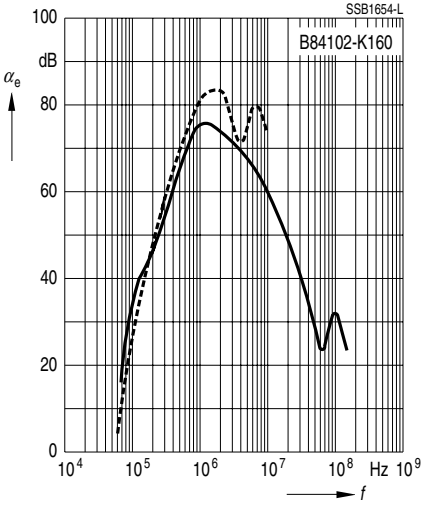
B84102-K40



B84102-K50



B84102-K160



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