

Power line filters for single-phase systems
Rated voltage 250 V~, 50/60 Hz
Rated current 8 A to 25 A
Construction

- Two-line filter
- Metal case

Features

- Very high insertion loss
due to two-stage construction
- Low leakage current
- Easy to install
- Degree of protection: IP 20¹⁾
- Design complies with
EN 133 200, UL 1283, CSA 22.2 No.8 1986
- Optimized for long motor cables
and operation under full load

Applications

- Frequency converters for motor drives, e.g.
 - elevators
 - conveyor systems
 - pumps
 - traction systems
 - HVAC systems (heating, ventilation and air conditioning)
- Power supplies

Terminals

- Safe-to-touch terminal blocks

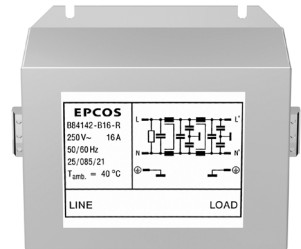
Marking

Marking on component:

 Manufacturer's logo, ordering code,
 rated voltage, rated current,
 rated temperature, date code

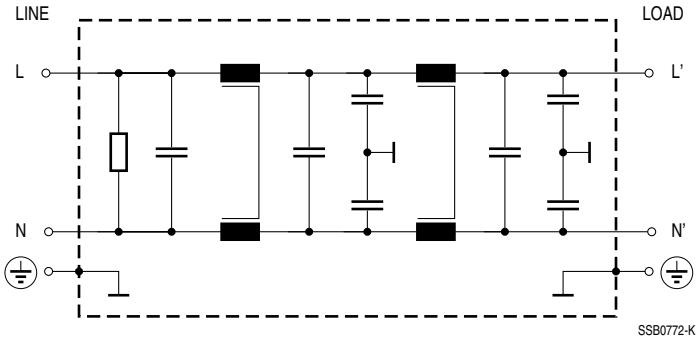
Minimum marking on packaging:

Manufacturer's logo, ordering code



1) In accordance with IEC 60529: 1989; EN 60529: 1991; DIN VDE 0470-1

Typical circuit diagram



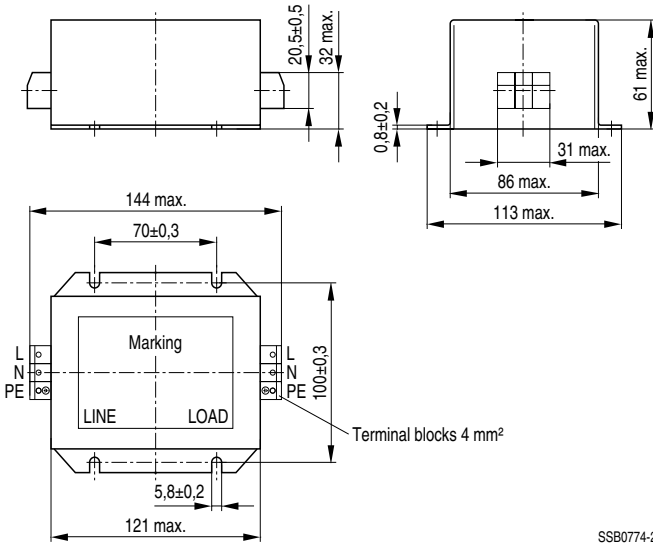
Technical data

Rated voltage V_R	250 V~, 50/60 Hz
Rated current I_R	Referred to 40 °C ambient temperature
Test voltage V_P	1770 V~, 2 s (line/line) 2700 V~, 2 s (lines/case)
Overload capability	1,5 · I_R for 3 min per hour or 2,5 · I_R for 30 s per hour
Leakage current I_{leak}	at 250 V~, 50 Hz
Climatic category	25/100/21 (– 25 °C/+ 100 °C/21 days damp heat test) in accordance with EN 60068-1

Characteristics and ordering codes

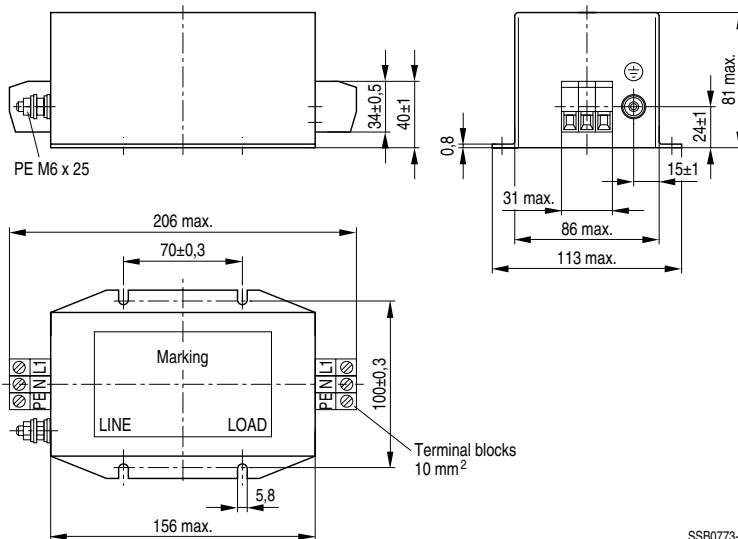
I_R	Terminal cross section mm ²	I_{leak} mA	R_{typ} mΩ	Approx. weight kg	Ordering code
A					
8	4	< 3,5	42	1,35	B84142-B8-R
12	4	< 3,5	30	1,45	B84142-B12-R
16	4	< 3,5	21	1,45	B84142-B16-R
25	10	< 3,5	9	3,7	B84142-B25-R

Dimensional drawing B84142-B8-R ... B84142-B16-R



SSB0774-2

Dimensional drawing B84142-B25-R



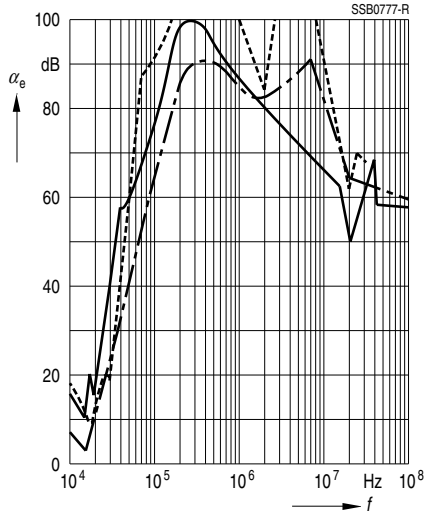
SSB0773-T

for Converters and Power Electronics

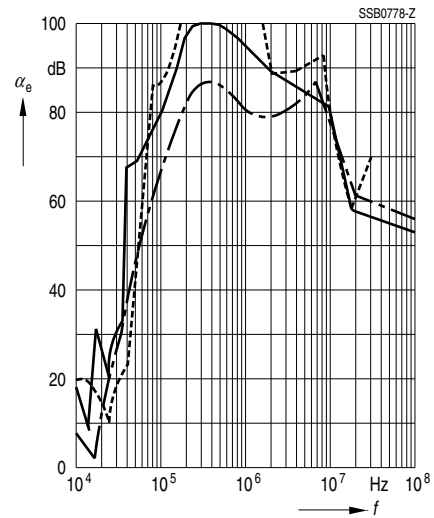
Insertion loss (typical values at $Z = 50 \Omega$)

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

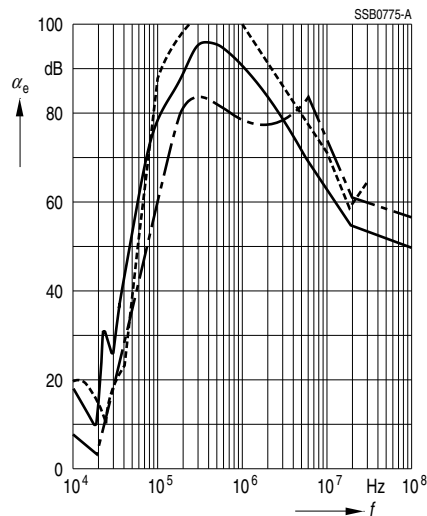
B84142-B8-R



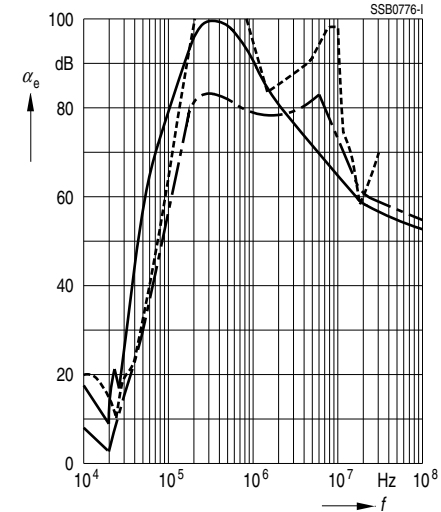
B84142-B12-R



B84142-B16-R



B84142-B25-R



Herausgegeben von EPCOS AG

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Published by EPCOS AG

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