



EMC filters

4-line filters
for installations and systems
Rated current 6 to 75 A

Series/Type: B84299K0033 ... K0039

Date: January 2006



4-line filters

B84299K0033 ... K0039

for installations and systems

**Power line filters for 3-phase systems
with additional VHF suppression**
Rated voltage 440/250 V AC, 50/60 Hz
Rated current 6 to 75 A

Construction

- 4-line filter
- Metal case
- Screw-type cable fitting for strain relief on line side, edge protector on load side
- Feedthrough capacitors

Features

- High insertion loss up to the GHz range
- UL approval 

Applications

- Power supplies for industrial installations
- Medical equipment
- Packaging machines

Terminals

- Finger-safe terminal blocks inside case

Marking

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

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



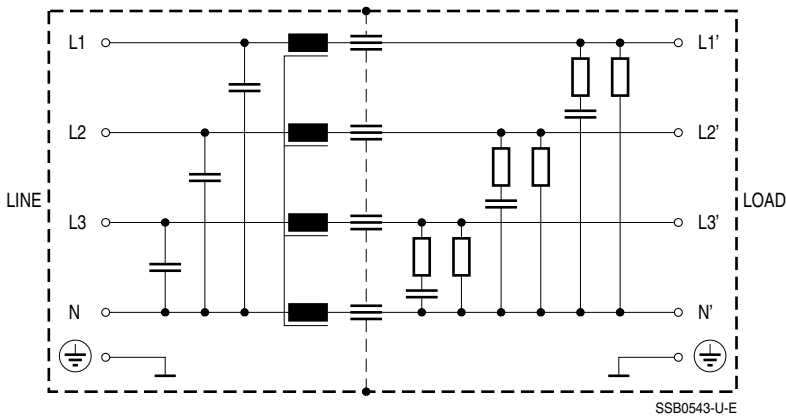


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Circuit diagram



Typical circuit taking the example of filters for 16 A

Technical data and measuring conditions

Rated voltage V_R	440/250 V 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 400 V AC, 50 Hz
Climatic category (IEC 60068-1)	40/085/21 (−40 °C/+85 °C/21 days damp heat test)
Approvals	UL 1283

Characteristics and ordering codes

V_R AC V	I_R A	I_{leak} mA	Terminal cross section mm ²	Approx. weight kg	Ordering code	Approvals
440/250	6	< 5	4	1.8	B84299K0033	×
	16	< 5	4	2.1	B84299K0035	×
	25	< 5	4	3.0	B84299K0036	×
	50	< 5	16	7.5	B84299K0037	×
	75	< 10	25	11	B84299K0039	×

× = approval granted



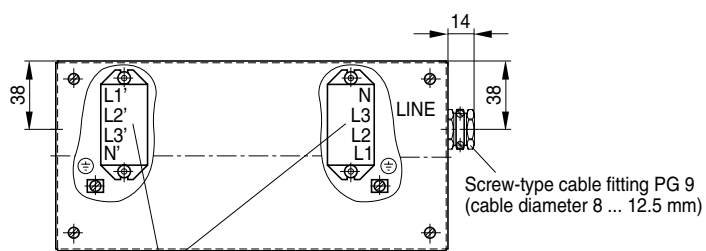
4-line filters

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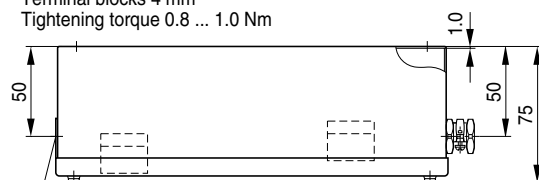
for installations and systems

Dimensional drawings

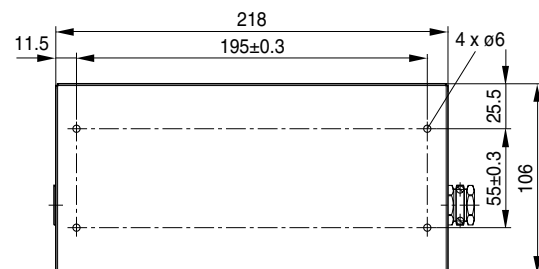
B84299K0033 (6 A)



Terminal blocks 4 mm²
Tightening torque 0.8 ... 1.0 Nm



ø13.5 with edge protector
Hole in case ø15.5±0.4



SSB1083-X-E

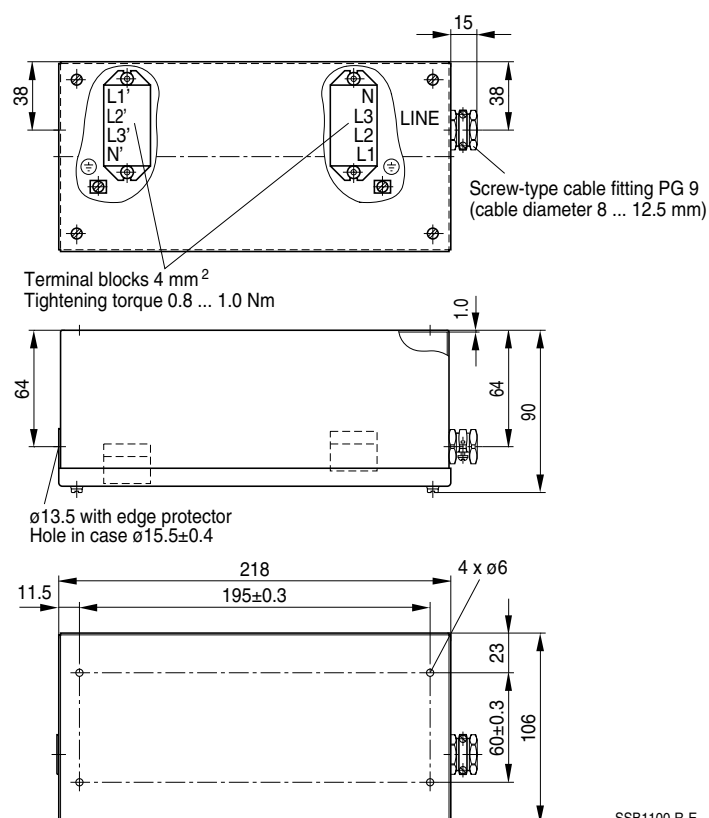


4-line filters

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B84299K0035 (16 A)



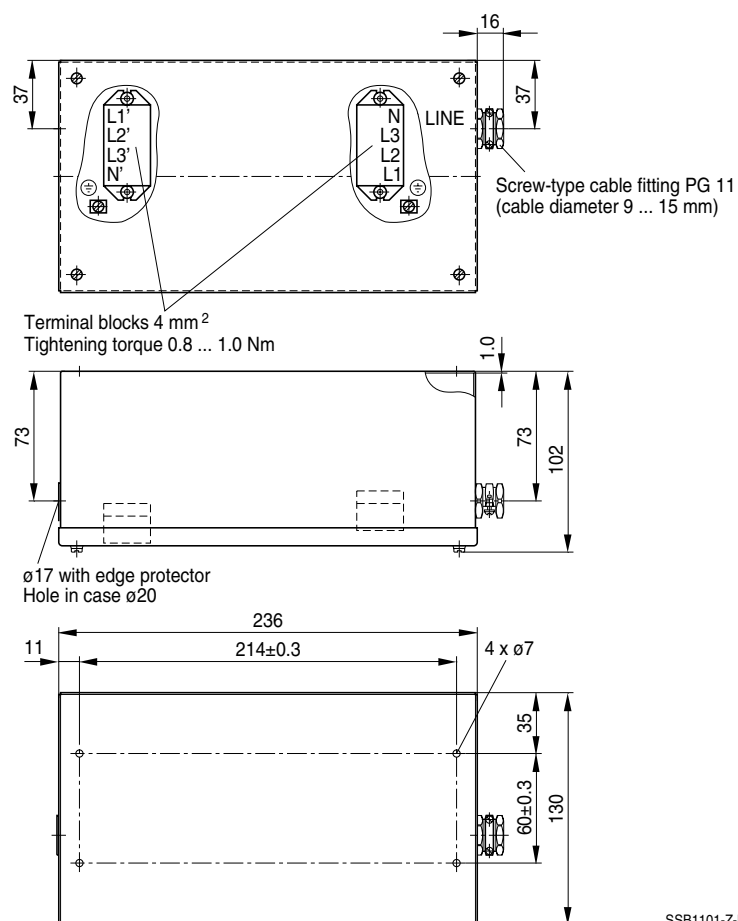


4-line filters

B84299K0033 ... K0039

for installations and systems

B84299K0036 (25 A)



SSB1101-Z-E

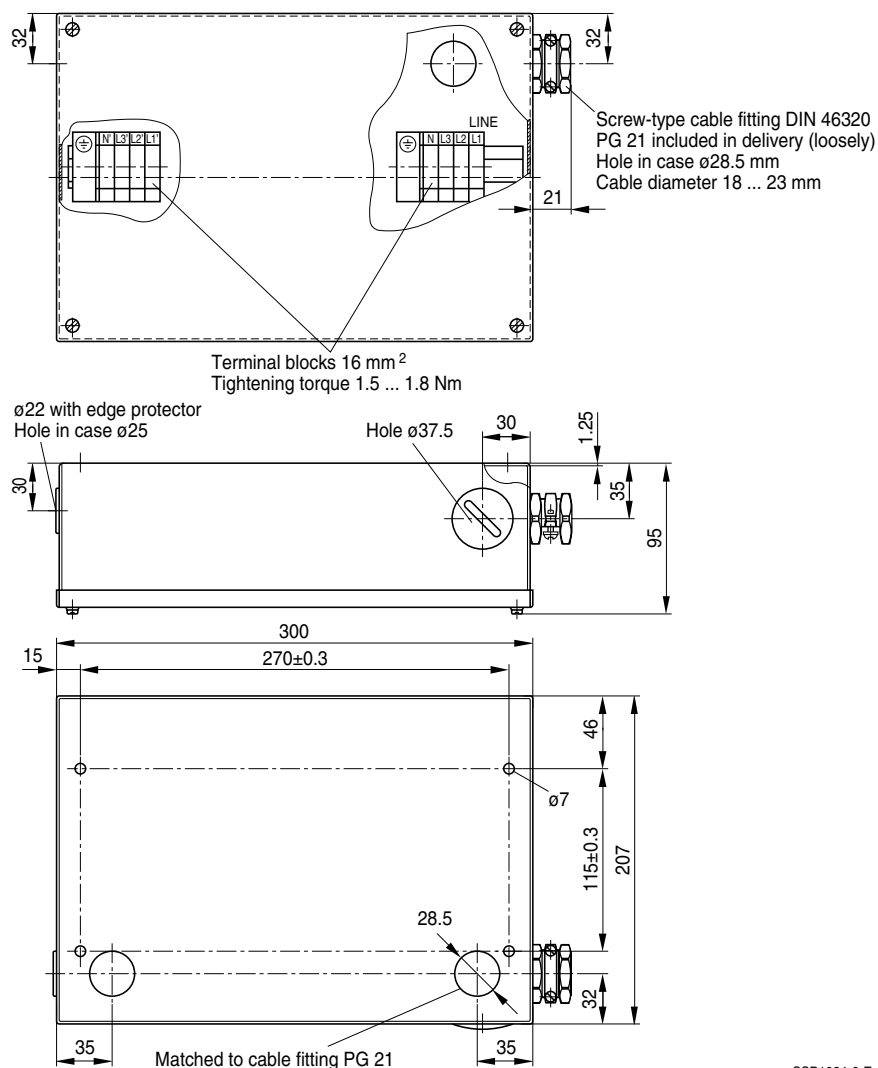


4-line filters

B84299K0033 ... K0039

for installations and systems

B84299K0037 (50 A)



SSB1084-6-E

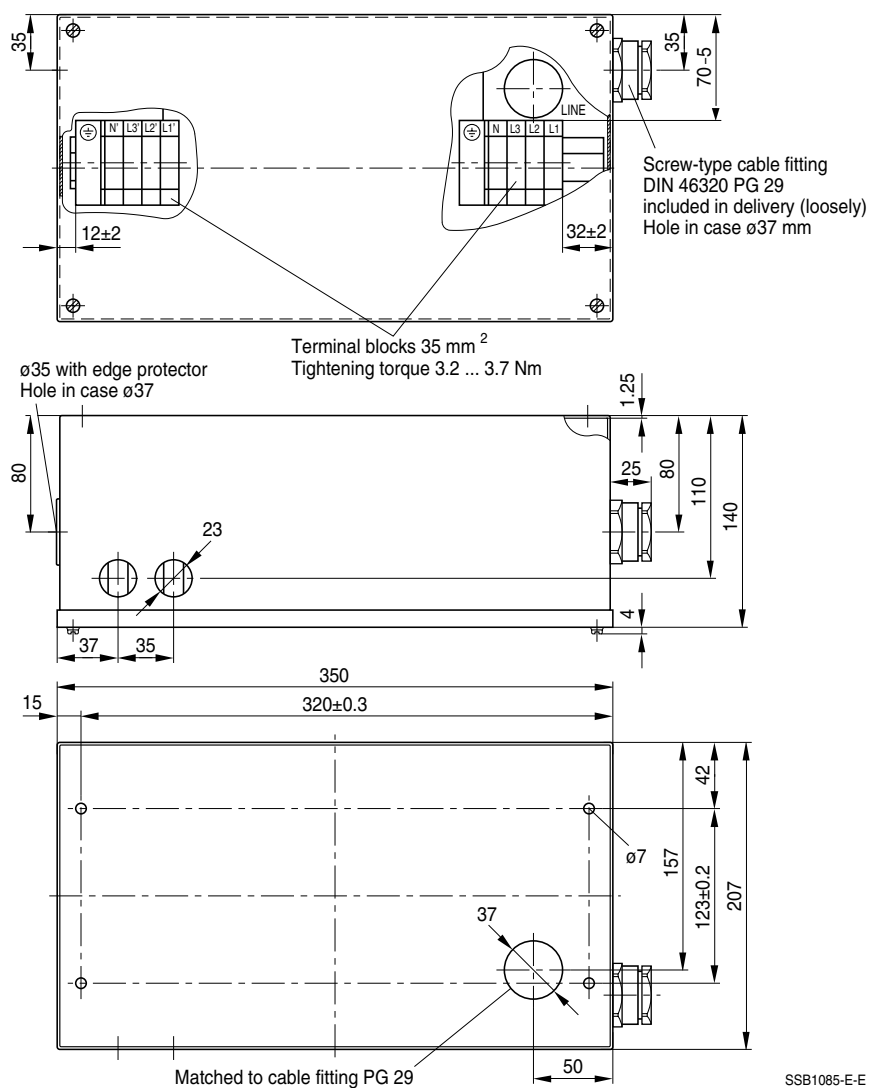


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B84299K0039 (75 A)



SSB1085-E-E



4-line filters

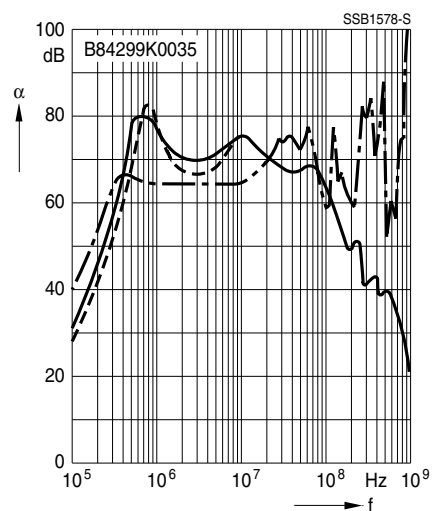
B84299K0033 ... K0039

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

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

Example: filters for 16 A





EMC filters

Cautions and warnings

Important information

Please read all safety and warning notes carefully before installing the EMC filter and putting it into operation (see ). The same applies to the warning signs on the filter. Please ensure that the signs are not removed nor their legibility impaired by external influences.

Death, serious bodily injury and substantial material damage to equipment may occur if the appropriate safety measures are not carried out or the warnings in the text are not observed.

Using according to the terms

The EMC filters may be used only for their intended application within the specified values in low-voltage networks in compliance with the instructions given in the data sheets and the data book. The conditions at the place of application must comply with all specifications for the filter used.

Warnings

- It shall be ensured that only qualified persons (electricity specialists) are engaged on work such as planning, assembly, installation, operation, repair and maintenance. They must be provided with the corresponding documentation.
- Danger of electric shock. EMC filters contain components that store an electric charge. Dangerous voltages can continue to exist at the filter terminals for longer than five minutes even after the power has been switched off.
- The protective earth connections shall be the first to be made when the EMC filter is installed and the last to be disconnected. Depending on the magnitude of the leakage currents, the particular specifications for making the protective-earth connection must be observed.
- Impermissible overloading of the EMC filter, such as impermissible voltages at higher frequencies that may cause resonances etc. can lead to destruction of the filter housing.
- EMC filters must be protected in the application against impermissible exceeding of the rated currents by suitable overcurrent protective.



EMC filters

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