

EMC filters

4-line filters for installations and systems Rated current 25 and 50 A

Series/Type: B84134A, B84134B

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for installations and systems

Power line filters for 3-phase systems Rated voltage 440/250 V AC, 50/60 Hz Rated current 25 and 50 A

Construction

- 4-line filter
- Metal case with terminal compartments
- Screw-type cable fittings for strain relief on line and load side
- I core chokes
- One-stage or two-stage

Features

- Insertion loss ≥ 100 dB in the medium frequency range
- UL approval

Applications

- Power supplies for elevators and industrial installations
- Medical equipment

Terminals

Screw terminals

Marking

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

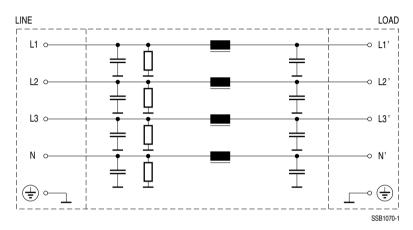
Minimum marking on packaging: Manufacturer's logo, ordering code



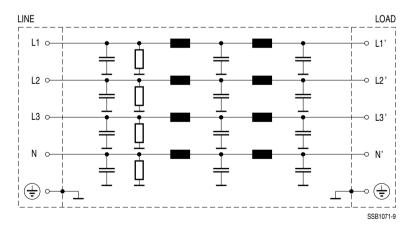
for installations and systems

Circuit diagrams

B84134A0025G001 (25 A)



B84134B0050G001 (50 A)





for installations and systems

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}	L/L = line/line L/C = lines/case		
Leakage current I _{leak}	At 400 V AC, 50 Hz		
Climatic category (IEC 60068-1)	25/085/21 (-25 °C/+85 °C/21 days damp heat test)		
Approvals	UL 1283		

Characteristics and ordering codes

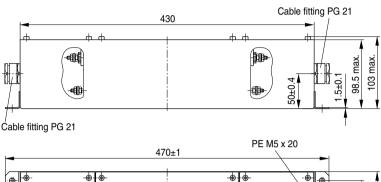
V _R AC	I _R	V _{test}		I _{leak}	Approx. weight	Ordering code	Approvals
V	Α	L/L (2 s)	L/C (2 s)	Α	kg		7/1
440/250	25	1414 V DC	2500 V DC	< 0.18	12.5	B84134A0025G001	×
	50	1100 V DC	1100 V DC	< 1.7	30	B84134B0050G001	_

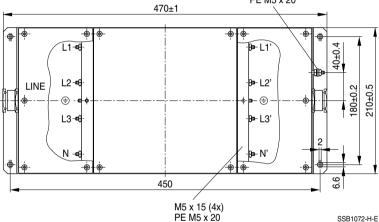
x = approval granted

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Dimensional drawings

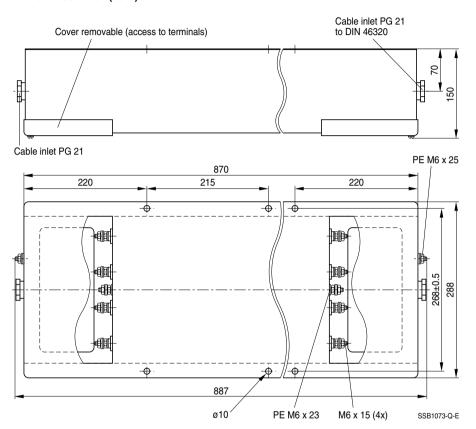
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B84134B0050G001 (50 A)





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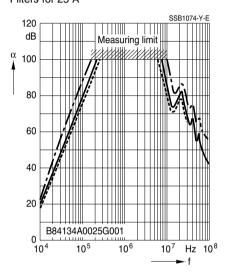
Insertion loss (typical values at $Z = 50 \Omega$)

unsymmetrical, adjacent branches terminated

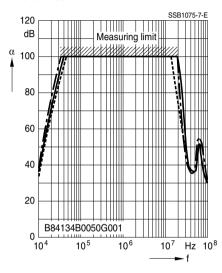
- - - - - common mode, all branches in parallel (asymmetrical)

---- differential mode (symmetrical)

Filters for 25 A



Filters for 50 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 Λ). 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 lowvoltage 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.

Marnings

- 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.



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- 1. Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
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