

Power line filters for three-phase systems

Rated voltage 480/275 V~, 50/60 Hz

Rated current 6 to 25 A

Construction

- Three-line filter
- Metal case
- Footprint filter



Features

- Low leakage current
- Easy to install
- UL approval
- Optimized for long motor cables and operation under full load

Applications

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

Terminals

- Line: Safe-to-touch terminal blocks
- Load: Litz wires

Marking

Marking on component:

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

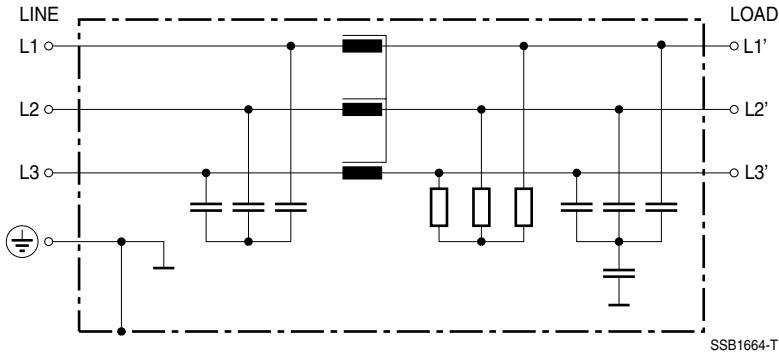
Minimum marking on packaging:

Manufacturer's logo, ordering code

Upon request the dimensions as well as the fixing points of the filters can be matched to customer requirements.

The dimensions shown on the following pages are also available for 1-phase systems up to 22 A.

Typical circuit diagram



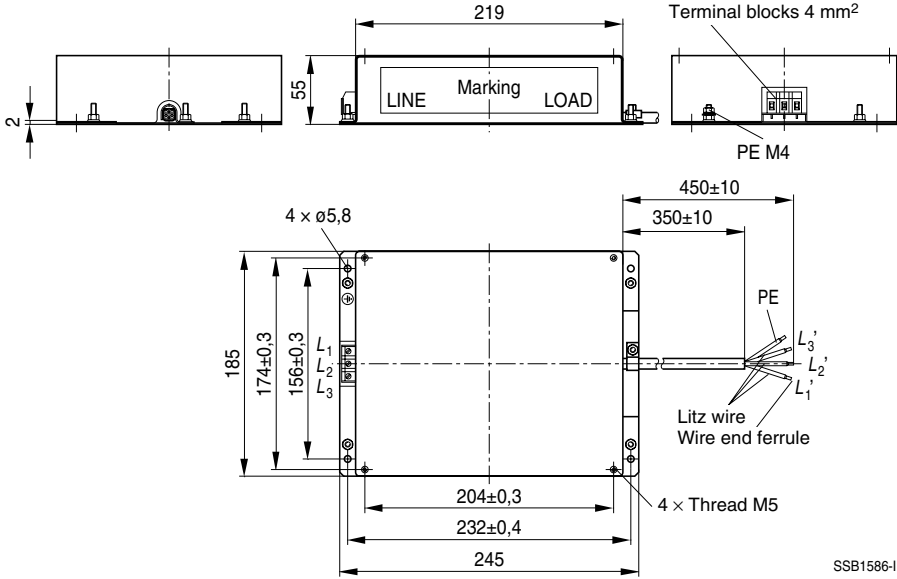
Technical data

Rated voltage V_R	480/275 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	$1,5 \cdot I_R$ for 3 min per hour or $2,5 \cdot I_R$ for 30 s per hour
Leakage current I_{leak}	at 480 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					
6	2,5	< 3,5	72	0,8	B84143-A6-R206
12	2,5	< 3,5	21	1,5	B84143-A12-R206
25	4	< 6	8,5	2,3	B84143-A25-R206

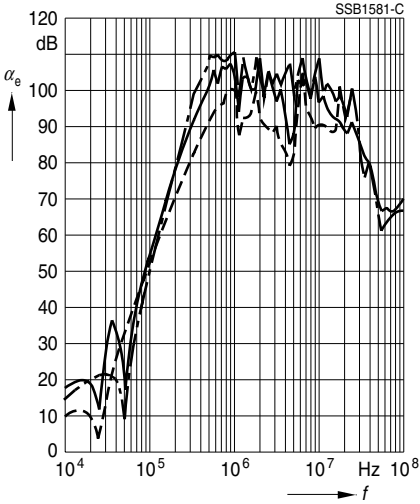
B84143-A25-R206



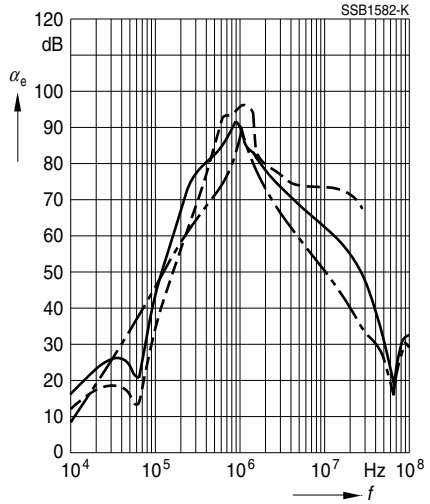
Insertion loss (typical values at $Z = 50 \Omega$)

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

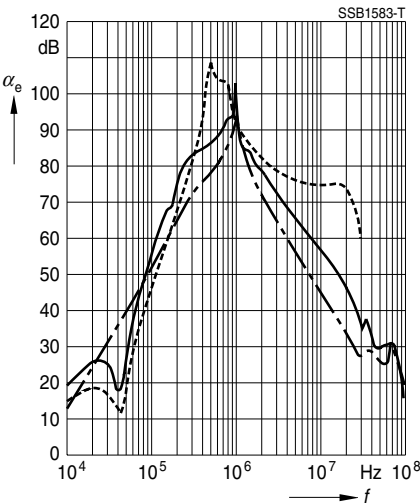
B84143-A6-R206



B84143-A12-R206



B84143-A25-R206



Herausgegeben von EPCOS AG

Marketing Kommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND

© EPCOS AG 2000. Alle Rechte vorbehalten. Vervielfältigung, Veröffentlichung, Verbreitung und Verwertung dieser Broschüre und ihres Inhalts ohne ausdrückliche Genehmigung der EPCOS AG nicht gestattet.

Mit den Angaben in dieser Broschüre werden die Bauelemente spezifiziert, keine Eigenschaften zugesichert. Bestellungen unterliegen den vom ZVEI empfohlenen Allgemeinen Lieferbedingungen für Erzeugnisse und Leistungen der Elektroindustrie, soweit nichts anderes vereinbart wird.

Diese Broschüre ersetzt die vorige Ausgabe.

Fragen über Technik, Preise und Liefermöglichkeiten richten Sie bitte an den Ihnen nächstgelegenen Vertrieb der EPCOS AG oder an unsere Vertriebsgesellschaften im Ausland.

Bauelemente können aufgrund technischer Erfordernisse Gefahrstoffe enthalten. Auskünfte darüber bitten wir unter Angabe des betreffenden Typs ebenfalls über die zuständige Vertriebsgesellschaft einzuholen.

Published by EPCOS AG

Marketing Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2000. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.