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Power line chokes

Current-compensated ring core triple chokes
440/250 V AC, 50 ... 200 A, 0.12 ... 1.3 mH

Series/Type: B82745C

Date: October 2008

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Rated voltage 440/250 V AC

Rated current 50 A to 200 A

Rated inductance 0.12 mH to 1.3 mH

Construction

- Current-compensated ring core triple choke
- Ferrite core
- Aluminum case
- Fixing by means of base plate
- Polyurethane potting (UL 94 V-0)
- Sector winding



Features

- High power
- Design complies with EN 60938-2 (VDE 0565-2)
- RoHS-compatible

Applications

- Suppression of common-mode interferences
- Switch-mode power supplies for converters, USV
- Power supplies, medical equipment
- Track vehicles, chargers

Terminals

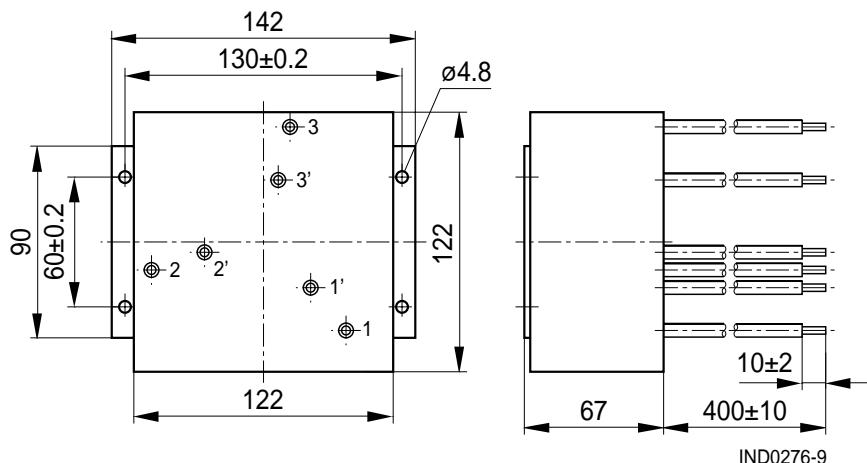
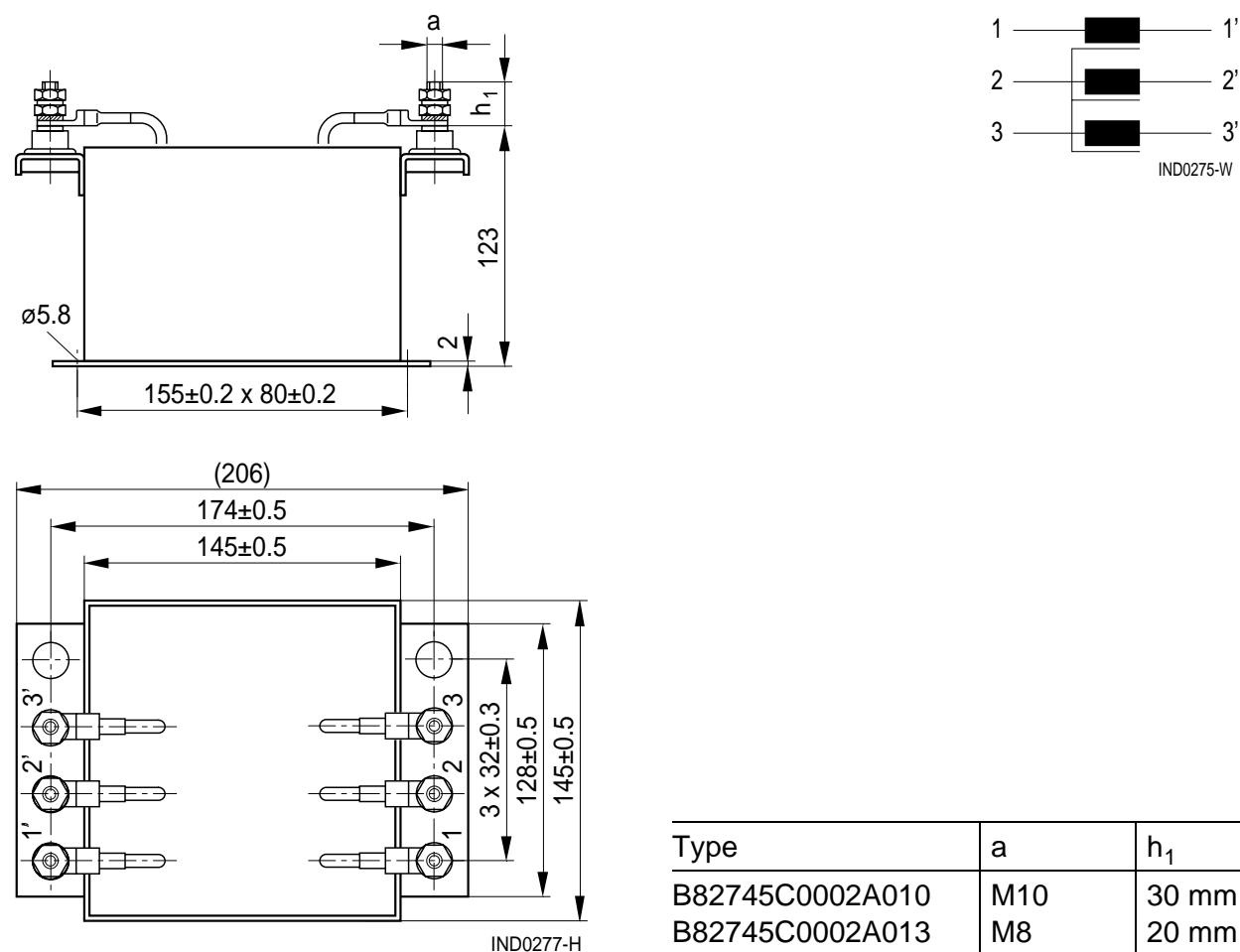
- Litz wires
- Stud terminals

Marking

Manufacturer, ordering code, rated current, rated inductance, rated voltage, climatic category, date of manufacture (MM.YY)

Delivery mode

Cardboard box

Dimensional drawings and electrical circuits
B82745C*A007

B82745C*A010, A013


Tolerances to ISO 2768-C unless otherwise noted.

Dimensions in mm

Please read *Cautions and warnings* and
Important notes at the end of this document.

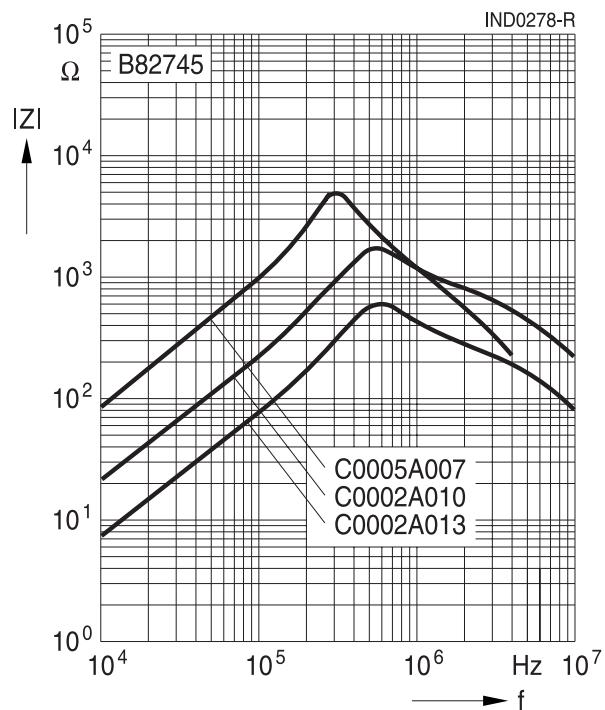
Technical data and measuring conditions

Rated voltage V_R	440/250 V AC (50/60 Hz)
Test voltage V_{test}	2500 V AC, 2 s (line/line) 2500 V AC, 2 s (line/case)
Rated temperature T_R	60 °C
Rated current I_R	Referred to 50 Hz and rated temperature
Rated inductance L_R	Measured with Agilent 4284A at 0.1 mA, 20 °C Measuring frequency: $L_R \leq 1 \text{ mH} = 100 \text{ kHz}$ $L_R > 1 \text{ mH} = 10 \text{ kHz}$ Inductance is specified per winding.
Inductance tolerance	±30% at 20 °C
Inductance decrease $\Delta L/L_0$	< 20% at DC magnetic bias with I_R , 20 °C
DC resistance R_{typ}	Measured at 20 °C, typical values, specified per winding
Climatic category	40/125/56 (to IEC 60068-1)
Storage conditions (packaged)	-25 °C ... +40 °C, ≤ 75% RH

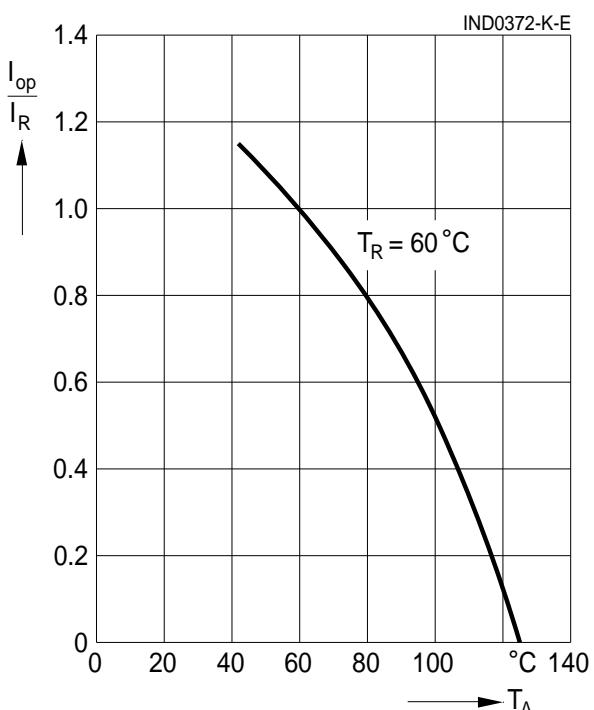
Characteristics and ordering codes

I_R A	L_R mH	R_{typ} mΩ	Weight kg	Terminal	Ordering code
50	1.3	3.75	1.7	Litz wire 11.5 mm ²	B82745C0005A007
100	0.33	0.65	6.0	Stud terminal M 10	B82745C0002A010
200	0.12	0.28	6.3	Stud terminal M 8	B82745C0002A013

Impedance $|Z|$ versus frequency f
 measured with windings in parallel at 20 °C,
 typical values



Current derating I_{op}/I_R versus ambient temperature T_A



Cautions and warnings

- Please note the recommendations in our Inductors data book (latest edition) and in the data sheets.
 - Particular attention should be paid to the derating curves given there.
 - The soldering conditions should also be observed. Temperatures quoted in relation to wave soldering refer to the pin, not the housing.
- If the components are to be washed varnished it is necessary to check whether the washing varnish agent that is used has a negative effect on the wire insulation, any plastics that are used, or on glued joints. In particular, it is possible for washing varnish agent residues to have a negative effect in the long-term on wire insulation.
- The following points must be observed if the components are potted in customer applications:
 - Many potting materials shrink as they harden. They therefore exert a pressure on the plastic housing or core. This pressure can have a deleterious effect on electrical properties, and in extreme cases can damage the core or plastic housing mechanically.
 - It is necessary to check whether the potting material used attacks or destroys the wire insulation, plastics or glue.
 - The effect of the potting material can change the high-frequency behaviour of the components.
- Ferrites are sensitive to direct impact. This can cause the core material to flake, or lead to breakage of the core.
- Even for customer-specific products, conclusive validation of the component in the circuit can only be carried out by the customer.

Important notes

The following applies to all products named in this publication:

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.

2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.

3. **The warnings, cautions and product-specific notes must be observed.**

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We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available.

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