



Harmonic Filter Reactor

Accessories

Series/Type: Reactor
Ordering code: B44066D7025L400
Date: June 2007
Version: 1

Accessories
Preliminary data
Characteristics

- Highest linearity
- Temperature switch in standard series
- With mounting plate to EN 60852
- International approvals
- Highest life time by high quality materials
- Low losses
- High over loading capability
- Low weight due to aluminium windings
- Safety device, temperature micro switch
- Low noise

Technical Data

Detuning factor p [%]:	7
Effective filter output Qc [kvar]:	50
Rated voltage [V]: ¹⁾	400
Rated frequency [Hz]:	50
Ambient temperature / Insulation class:	40 °C/H
Capacitance C delta (tot.) [µF]:	1865 (= 3 x C delta)
Inductivity L [mH]:	0.76
Linear up to :	1.66 x I _{eff}
Effective current I _{rms} [A]: ²⁾	81.67
Rated current EN61558 I _{Ln} [A]	76.5
Rated harmonic voltages (3 rd /5 th /7 th /11 th /13 th) [%]:	0.5 / 5 / 5
Temperature protection (NC) :	132
Total losses P _v [W]:	210
Total weight [kg]:	21

¹⁾ Voltage rise up to 106% of Rated Voltage is considered in current I_{eff}.

²⁾ $I_{\text{eff}} = \sqrt{I_1^2 + I_3^2 + \dots + I_x^2}$

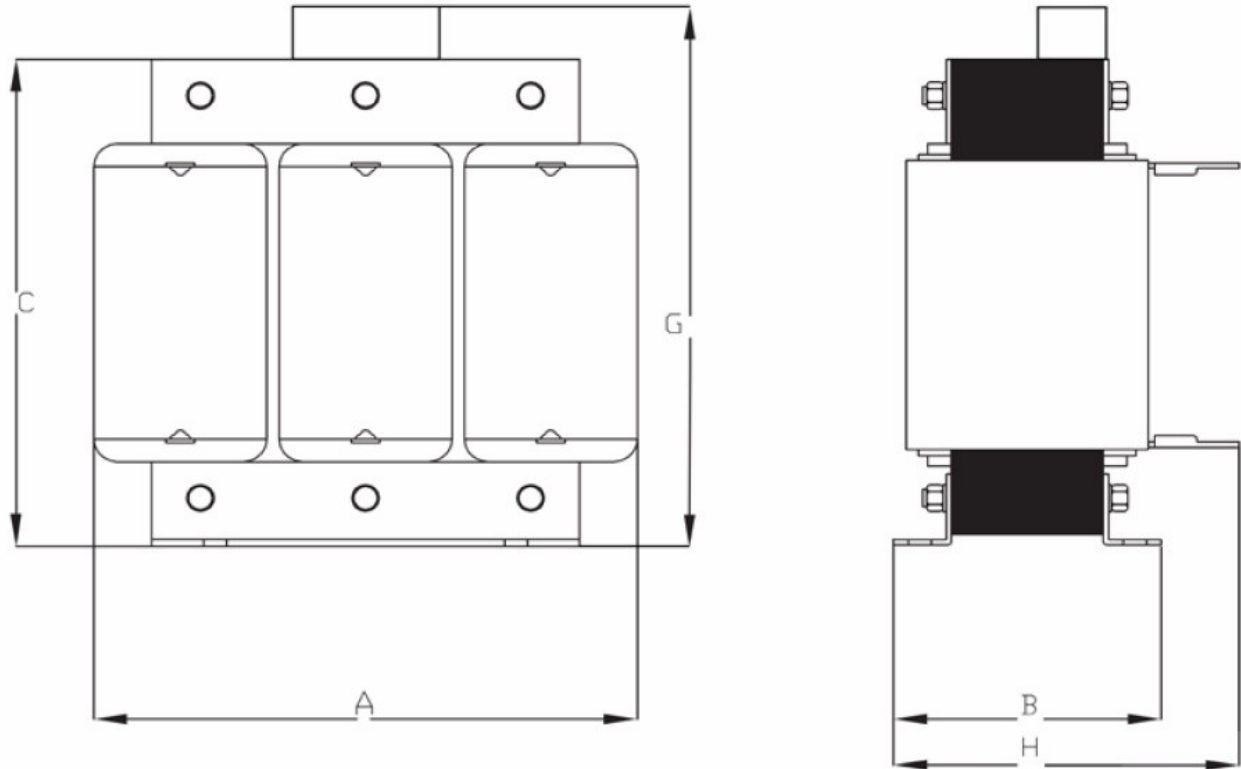
Connection

Line:	1U1-1V1-1W1
Capacitors:	1U2-1V2-1W2
Temperature control:	1-2

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Dimensional drawing



Dimensions (mm)

A	B	C	G	H
265	133	220	-	166

⚠ Cautions:

- Do not install the reactor in case of any visible damages.
- Installation must only be done by skilled personnel only.
- Do not use or store harmonic filter reactors in corrosive atmosphere, especially where chloride gas, sulphide gas, acid, alkali, salt or similar substances are present.
- Do not touch the device during operation: all electrically active parts of this equipment such as windings, electronic components, leads, fuses and terminals carry a dangerous voltage which can lead to burns or electric shock.
- Covers which protect these electrically active parts from being touched must not be opened or removed during operation.
- Before any assembly or maintenance work is started, all installations and equipment must be disconnected from the power source.

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- Noncompliance with these instructions may lead to death, serious injury or major damage to equipment.

In order to exclude impermissible temperatures and thus overload of the insulation system, the following directions must additionally be observed:

1. Only those protective devices specified on the type plates, such as fuses and motor protection switches, may be used. It is mandatory to observe the set values specified for the motor protection switches. Any temperature-sensitive protective devices such as temperature switches and temperature sensors must be connected in accordance with the installation instructions.
2. High temperatures are permissible for the surfaces under rated operating conditions, and especially in the event of overload. Depending on the temperature class and type of loading, these may attain values of up to 260 °C and may also affect adjacent components which have been packed too densely.
3. The insertion position should be selected so that any cooling ducts present within the winding are arranged vertically and that the current of cooling air is not impeded by adjacent components, connecting leads etc.
4. The maximum voltage of the insulating system specified on the type plate must not be exceeded. Noncompliance with these instructions may lead to considerable damage to equipment or fire due to impermissibly high temperatures.
5. We strongly recommend to make use of the integrated temperature switch (NC). It will open when the maximum operation temperature for the reactor is reached. Note: This switch is a warning device only. It will not disconnect the reactor. Overheating may lead to failure of the device and subsequently to severe damage to the equipment and/or serious injury or death of human beings.

⚠ Please read cautions information about PFC capacitors and cautions as well as installation and maintenance instructions in the actual version of the Product Profile *Power Factor Correction* to ensure optimum performance and prevent products from failing, and in worst case, bursting and fire, etc. The actual Product Profile is available at www.epcos.com/publications.

Information given in the PFC-product profile and values given in the data sheet reflect typical specifications. You are kindly requested to approve our product specifications or request our approval for your specification before ordering.

Important notes

The following applies to all products named in this publication:

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2. We also point out that **in individual cases, a malfunction of passive 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 a passive 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 a passive electronic component.
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