



# Film Capacitors – Power Factor Correction

## Harmonic Filter Reactor

**Series/Type:** B44066D\*\*\*\*M\*\*\*  
**Ordering code:** B44066D1412M400  
**Date:** January 2017  
**Version:** 2

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**Preliminary data**
**Characteristics**

- Highest linearity
- Temperature control via micro switch in inner coil
- With mounting plate to EN 60852
- International approvals
- Highest life time by high quality materials
- Low losses
- High overloading capability
- Low weight due to aluminium windings
- Low noise


**Technical data**

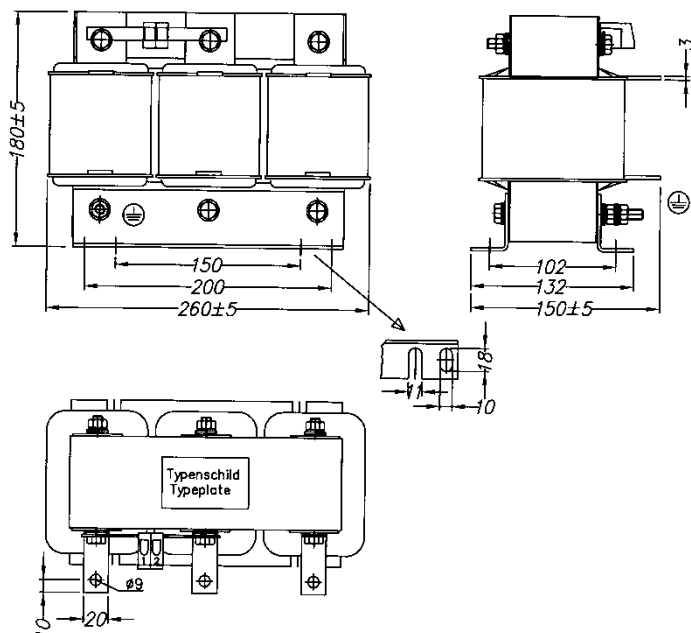
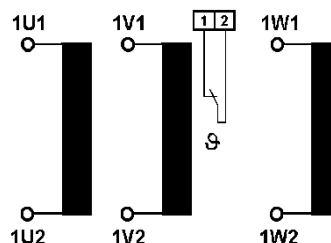
De-tuning factor p	14 %
Effective filter output Q <sub>C</sub>	12.5 kvar
Rated voltage V <sub>R</sub> <sup>1)</sup>	400 V
Rated frequency	50 Hz
Ambient temperature / Insulation class	40 °C/B
Capacitance C delta (tot.)	214 µF (= 3 · C delta )
Inductivity L	3 • 6.636 mH
Linear up to	26
Effective current I <sub>RMS</sub> <sup>2)</sup>	19.3 A
Rated harmonic voltages (3 <sup>rd</sup> /5 <sup>th</sup> /7 <sup>th</sup> /11 <sup>th</sup> /13 <sup>th</sup> )	0.5 / 6 / 5 / 3.5 / 3%
Temperature protection (NC)	yes
Total losses P <sub>D</sub>	90 W
Total weight	22 kg

<sup>1)</sup> Voltage rise up to 106% of rated voltage is considered in current I<sub>eff</sub>.

<sup>2)</sup>  $I_{eff} = \sqrt{(I_1^2 + I_3^2 + \dots I_x^2)}$

**Connection**

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

**Preliminary data**
**Dimensional drawing**

**Connection diagram**

**Dimensions (mm)**
**Cautions and warnings**

- Do not install the reactor in case of any visible damages.
- Installation must 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.
- Noncompliance with these instructions may lead to death, serious injury or major damage to equipment.

FAILURE TO FOLLOW CAUTIONS MAY RESULT, WORST CASE, IN PREMATURE FAILURES OR PHYSICAL INJURY.

**Note**

For detailed information about PFC capacitors and cautions, refer to the latest version of EPCOS PFC Product Profile.

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