



## Film Capacitors – Power Factor Correction

### Harmonic Filter Reactor

**Series/Type:** B44066D7030K440N1

**Ordering code:** B44066D\*\*\*K\*\*\*

**Date:** 2018-08-22

**Version:** 2

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### Characteristics

- Highest linearity
- Temperature control via micro switch in inner coil
- Highest life time by high quality materials
- Low losses
- High overloading capability
- Safety device, temperature micro switch
- Low noise



### Technical Data

|   |   |
|---|---|
| De-tuning factor p [%]:   | 7   |
| Effective filter output Q <sub>C</sub> [kvar]:  | 30  |
| Rated voltage V <sub>R</sub> [V]: <sup>1)</sup>   | 440   |
| Rated frequency [Hz]:   | 50  |
| Ambient temperature / Insulation class:   | 40 °C/H   |
| Capacitance C delta (tot.) [μF]:  | 459   |
| Inductivity L [mH]:   | 3 • 1.545                                       |
| Linear up to [A]:   | 68.1  |
| Effective current I <sub>rms</sub> [A]: <sup>2)</sup>   | 44.67   |
| Rated harmonic voltages<br>(1 <sup>st</sup> /3 <sup>rd</sup> /5 <sup>th</sup> /7 <sup>th</sup> /11 <sup>th</sup> /13 <sup>th</sup> /17 <sup>th</sup> /19 <sup>th</sup> /23 <sup>th</sup> /25 <sup>th</sup> [%]: | 110 / 1 / 8 / 7 / 5 / 4.5 / 4 / 3.5 / 2.8 / 2.6 |
| Temperature protection (NC) :   | yes   |
| Total losses P <sub>D</sub> [W]:  | 140   |
| Total weight [kg]:  | 23  |

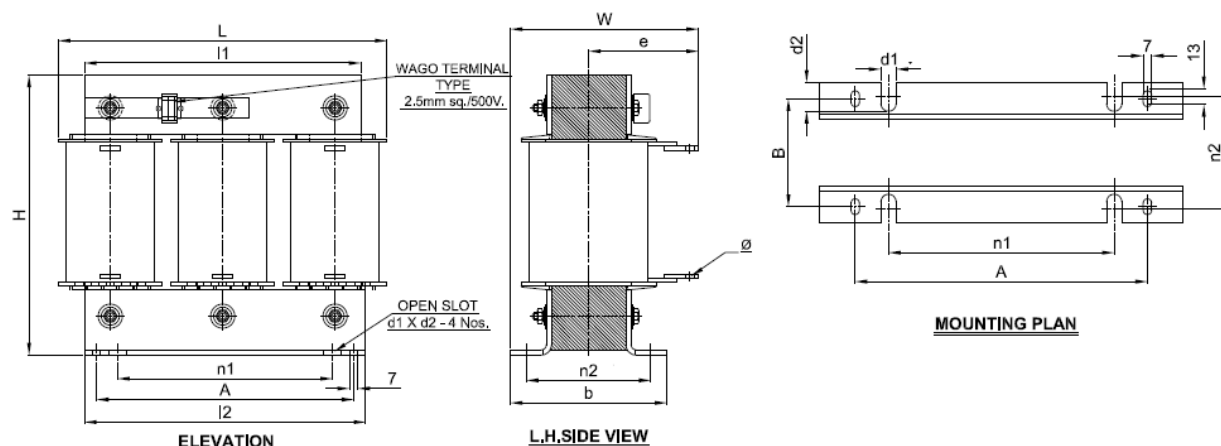
<sup>1)</sup> Voltage rise up to 106% of rated voltage is considered in current I<sub>eff</sub>.

<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         |

## Dimensional drawing



## Dimensions

|       |       |       |       |
|-------|-------|-------|-------|
| L/mm  | 240   | b/mm  | 114   |
| H/mm  | 205   | e/mm  | 130±5 |
| W/mm  | 190±5 | d1/mm | 10.8  |
| l1/mm | 205   | d2/mm | 15.5  |
| l2/mm | 205   | A     | 175   |
| n1/mm | 150   | B     | 95    |
| n2/mm | 98±3  | Ø     | 8.5   |

## 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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## Important notes

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