

# Film Capacitors – Power Factor Correction

Harmonic Filter Reactor

Series/Type: B44066D7040E440N1 Ordering code: B44066D\*\*\*E\*\*\*

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# Film Capacitors – Power Factor Correction

B44066D\*\*\*E\*\*\*

## **Harmonic Filter Reactor**

# B44066D7040E440N1

#### **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**

reclinical bata		
De-tuning factor p [%]:	7	
Effective filter output Q <sub>C</sub> [kvar]:	40	
Rated voltage V <sub>R</sub> [V]: 1)	440	
Rated frequency [Hz]:	50	
Ambient temperature / Insulation class:	40 °C/H	
Capacitance C delta (tot.) [µF]:	687.89	
Inductivity L [mH]:	3 • 1.16	
Linear up to [A]:	90.8	
Effective current I <sub>ms</sub> [A]: <sup>2)</sup>	59.56	
Rated harmonic voltages (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]:	195	
Total weight [kg]:	24	

 $<sup>^{1)}</sup>$  Voltage rise up to 106% of rated voltage is considered in current  $I_{\text{eff.}}$ 

#### Connection

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

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<sup>&</sup>lt;sup>2)</sup>  $I_{\text{eff}} = \sqrt{(I_1^2 + I_3^2 + ... I_x^2)}$ 

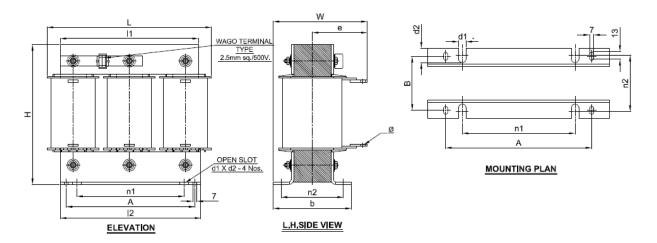


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#### **Harmonic Filter Reactor**

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## **Dimensional drawing**



#### **Dimensions**

L/mm	270	b/mm	185
H/mm	210	e/mm	95±5
W/mm	188±5	d1/mm	10.8
I1/mm	220	d2/mm	15.5
I2/mm	220	А	175
n1/mm	150	В	165
n2/mm	165±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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