



## **Film capacitors – Power Factor Correction**

### **Key components – Discharge reactor**

**Series/Type:** B44066E  
**Ordering code:** B44066E9900L001  
**Date:** June 2012  
**Version:** 3

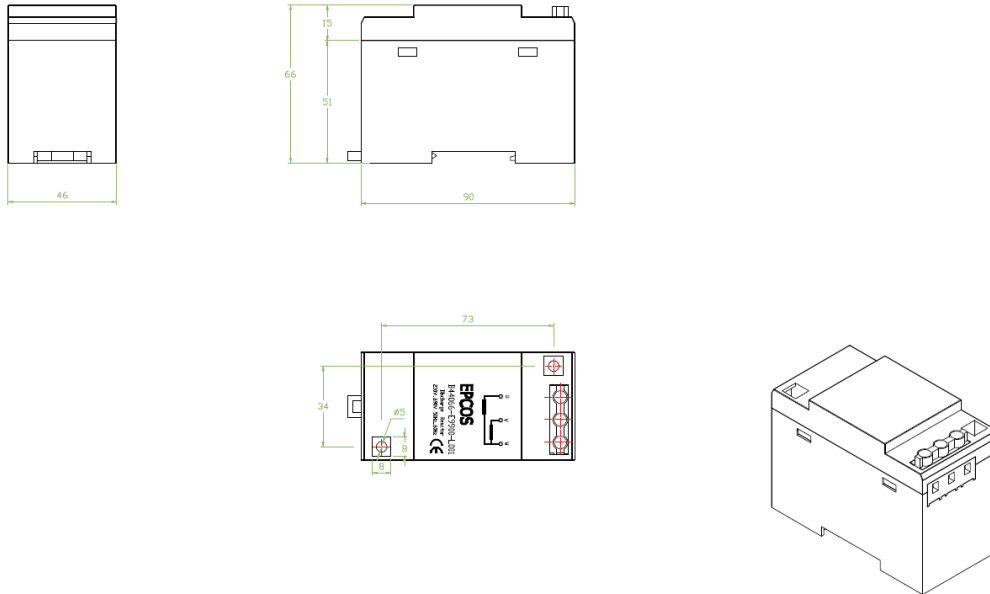
**Characteristics**

- Fast discharge for fast reconnection of PFC capacitors
- Reduced losses
- Shockproof case for rail mounting


**Technical data and specifications**

Weight		0.5 kg																		
Dimensions	h x w x d	91 mm x 46 mm x 58 mm																		
Case		Shockproof																		
Voltage	$V_R$	230 to 690 V																		
Frequency	f	50/60 Hz																		
Internal configuration		2 windings in V arrangement																		
Resistance	R	5300 $\Omega$																		
Discharge time	t	<table border="0"> <tr> <td>230 V</td> <td>up to 25 kvar &lt;10 s</td> </tr> <tr> <td></td> <td>up to 50 kvar &lt;20 s</td> </tr> <tr> <td></td> <td>up to 100 kvar &lt;40 s</td> </tr> <tr> <td>400 ... 525 V</td> <td>up to 25 kvar &lt;5 s</td> </tr> <tr> <td></td> <td>up to 50 kvar &lt;10 s</td> </tr> <tr> <td></td> <td>up to 100 kvar &lt;20 s</td> </tr> <tr> <td>525 ... 690 V</td> <td>up to 25 kvar &lt;3 s</td> </tr> <tr> <td></td> <td>up to 50 kvar &lt;6 s</td> </tr> <tr> <td></td> <td>up to 100 kvar &lt;12 s</td> </tr> </table>	230 V	up to 25 kvar <10 s		up to 50 kvar <20 s		up to 100 kvar <40 s	400 ... 525 V	up to 25 kvar <5 s		up to 50 kvar <10 s		up to 100 kvar <20 s	525 ... 690 V	up to 25 kvar <3 s		up to 50 kvar <6 s		up to 100 kvar <12 s
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Power loss	$P_{LOSS}$	< 1.6 W																		
Free wheeling current	I	< 3.4 mA																		
Accepted discharge number		1 x / minute and 100 kvar																		
Temperature class		Ta = 40 ° C/B																		
Cable diameter	$\emptyset$	0.75 ... 2 x 2.5 mm <sup>2</sup>																		
Installation location		Indoor																		
Degree of protection	I	IP40																		
Terminals		Fixing torque 0.5 Nm																		
Ambient temperature		-25 ... + 55 °C																		
Cooling		Natural																		

### Dimensional drawing



### Cautions and warnings

- Do not install the discharge reactor in case of any visible damages.
- Installation must be done by skilled personnel only.
- Do not use or store the device 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 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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