Film Capacitors – Power Factor Correction

Current limitation reactor

Series/Type: **BD-050/BD-100/BD-200**
Ordering code: **B44066T….E400/E480**

Date: December 2010
Version: 1

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B44066T0200E480	B44066T0200L480	2018-10-26	2019-01-31	2019-04-30
B44066T0200E400	B44066T0200L480	2018-10-26	2019-01-31	2019-04-30
B44066T0100E480	B44066T0100L480	2018-10-26	2019-01-31	2019-04-30
B44066T0100E400	B44066T0100L480	2018-10-26	2019-01-31	2019-04-30
B44066T0050E480	B44066T0050L480	2018-10-26	2019-01-31	2019-04-30
B44066T0050E400	B44066T0050L480	2018-10-26	2019-01-31	2019-04-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Characteristics

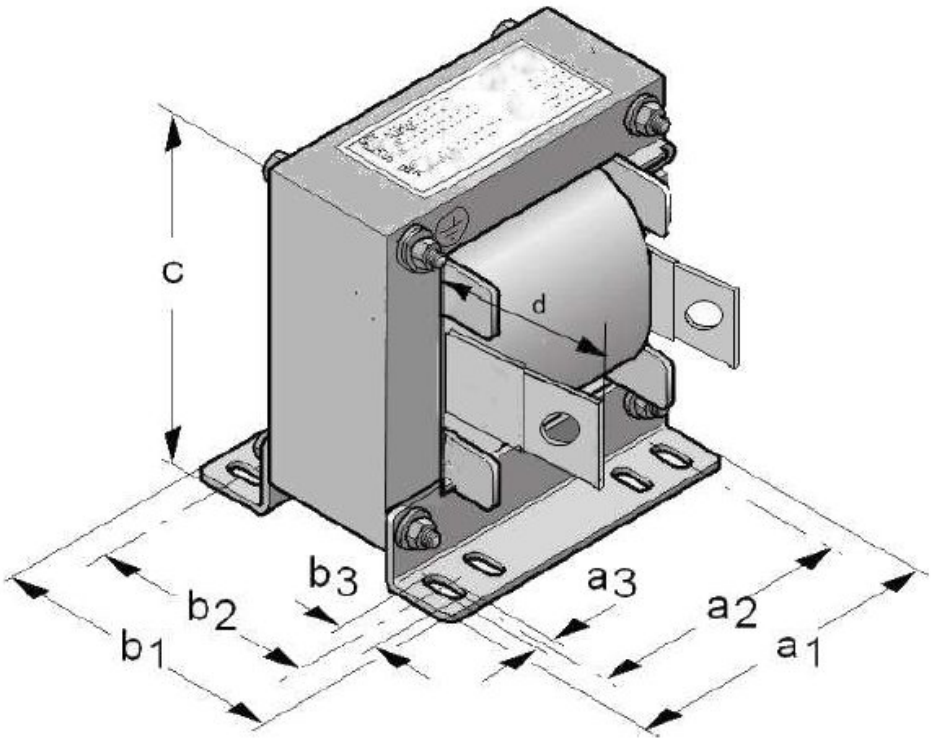
- Single phase current limitation reactor for thyristor modules TSM-series in conventional dynamic PFC-systems without reactor
- Used for limitation of the pace of current increase dI/dT in the thyristors to the maximum permissible value
- Protection of thyristor modules series TSM-LC10, TSM-LC25, TSM-LC50 and TSM-LC100 (two units per step required).

Characteristics			
400/440 V-type	**BD-050***	**BD-100**	**BD-200****
Nominal voltage	400/440 V	400/440 V	400/440 V
Nominal current	50 A	85 A	170 A
Linearity	70 A	120 A	240 A
Inductivity	0.1 mH	0.1 mH	0.1 mH
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Losses at I_{eff} nominal current	21 W	26 W	55 W
Connection	Cu bus bar	Cu bus bar	Cu bus bar
Mode of operation	Continuous	Continuous	Continuous
Maximum ambient operating temperature	80 °C	80 °C	80 °C
Ordering code	B44066T0050E400	B44066T0100E400	B44066T0200E400
480 V-type	**BD-050/480***	**BD-100/480***	**BD-200/480****
Nominal voltage	480 V	480 V	480 V
Nominal current	50 A	85 A	170 A
Linearity	70 A	120 A	240 A
Inductivity	0.1 mH	0.1 mH	0.1 mH
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Losses at I_{eff} nominal current	23 W	28 W	55 W
Mode of operation	Continuous	Continuous	Continuous
Maximum ambient operating temperature	80 °C	80 °C	80 °C
Ordering code	B44066T0050E480	B44066T0100E480	B44066T0200E480

*production only after ordering

** only suitable for TSM-LC100

Dimensional drawing



Dimensions in mm	B44066T0050E400	B44066T0050E480	B44066T0100E400 B44066T0100E480	B44066T0200E400 B44066T0200E480
a1	56	65	73	104
a2	44	50	56	84
a3	3,6	4,8	4,8	5,8
b1	61	58	74	114
b2	50	44,5	60	98
b3	7	9	9	11
c	70	82	88	125
d (ca.)	35	35	40	55
Cu bus bar	15/D7	15/D7	20x2/D9	20x3/D9
Weight (kg)	ca. 1.5	ca. 1.5	ca. 2	ca. 6

Cautions and warnings

- The BD-xxx is designed exclusively for use in dynamic LV-PFC-systems without detuning reactors.
- **Do not use the current limitation reactors for TSM-LC200 and TSM-HV200!**
- **BD-200 is suitable for TSM-LC100 only.**
- The maximum permissible nominal voltage (see technical data) must not be exceeded!
- The equipment may be operated only by suitably trained personnel.
- A minimum distance of 50 mm towards the adjoining component set has to be kept.
- Mounting onto mounting plate.
- Mounting position random.

Note

For detailed information about PFC capacitors and cautions, refer to the latest version of EPCOS PFC Product Profile.
Important: Please note that the „General Safety Recommendations for Power Capacitors“ by ZVEI (German Electrical and Electronic Manufacturers´ Association (ZVEI) have to be observed in addition to the caution guidelines stated in the data sheet (Internet: www.epcos.com/pfc).

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application.** As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
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4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet (www.tdk-electronics.tdk.com/material). Should you have any more detailed questions, please contact our sales offices.
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.

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