

25 kvar Harmonic Filter Reactor 440V 50Hz

 Series/Type:
 B44066D***K***

 Ordering code:
 B44066D7025K440

1

Date: Version: 2021-03-23

 \odot TDK India Private Limited 2021. Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein without TDK India's prior express consent is prohibited.



B44066D7025K440

B44066D***K***

Power Factor Correction

25 kvar Harmonic Filter Reactor 440V 50Hz

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
- Aluminium winding
- Low noise

Technical data		
De-tuning factor p	7	%
Effective filter output Q _C	25	kvar
Rated voltage V _R ¹⁾	440	V
Rated frequency f	50	Hz
Ambient temperature / Insulation class	40 / H	°C
Capacitance C delta (tot.)	382.46	μF
Inductivity L	3 • 1.86	mH
Fundamental current I1 ³⁾	34.77	A
Linear up to ⁴⁾	56.75	A
Effective current I _{RMS} ²⁾	37.23	A
Rated harmonic voltages (3 rd /5 th /7 th /11 th /13 th)	0.5 / 6 / 5 / 3.5 / 3	%
Temperature protection (NC)	yes	-
Total losses P _D	120	W
Total weight	18	kg

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

²⁾ $|_{eff} = \sqrt{(|_1^2 + |_3^2 + ... |_x^2)}$

³⁾ I1 = 1.06 \cdot I_R (I_R = Capacitor current 50Hz)

⁴⁾ Linear current = $1.73 \cdot I_R$ (I_R = Capacitor current 50Hz)

Connection

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

Reference standard IEC60076-6

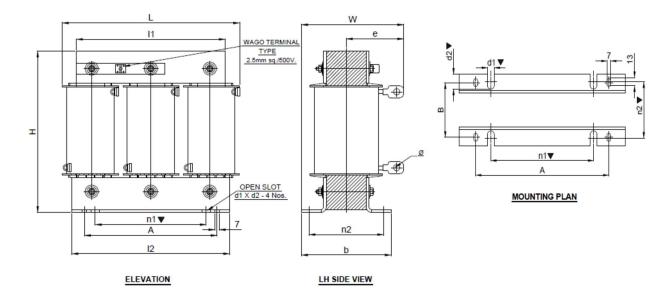
CAP FILM ES PFC PM



25 kvar Harmonic Filter Reactor 440V 50Hz

B44066D7025K440 B44066D***K***

Dimensional drawings



Dimensions

L/mm	225	b/mm	112	
H/mm	205	e/mm	115±5	
W/mm	175±5	d1/mm	10.8	
I1/mm	190	d2/mm	15.5	
l2/mm	190	A	175	
n1/mm	150	В	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.

CAP FILM ES PFC PM



25 kvar Harmonic Filter Reactor 440V 50Hz

B44066D7025K440

B44066D***K***

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.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 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.

We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

- 6. Unless otherwise agreed in individual contracts, all orders are subject to our General Terms and Conditions of Supply.
- 7. Our manufacturing sites serving the automotive business apply the IATF 16949 standard. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that only requirements mutually agreed upon can and will be implemented in our Quality Management System. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.



25 kvar Harmonic Filter Reactor 440V 50Hz

B44066D7025K440

B44066D***K***

8. The trade names EPCOS, CarXield, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, ModCap, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap, XieldCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

Release 2020-06

CAP FILM ES PFC PM