



Film capacitors – Power Factor Correction

Harmonic Filter Reactor

Series/Type: B44066D****L***
Ordering code: B44066D5025L400
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Version: 3

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Preliminary data
Characteristics

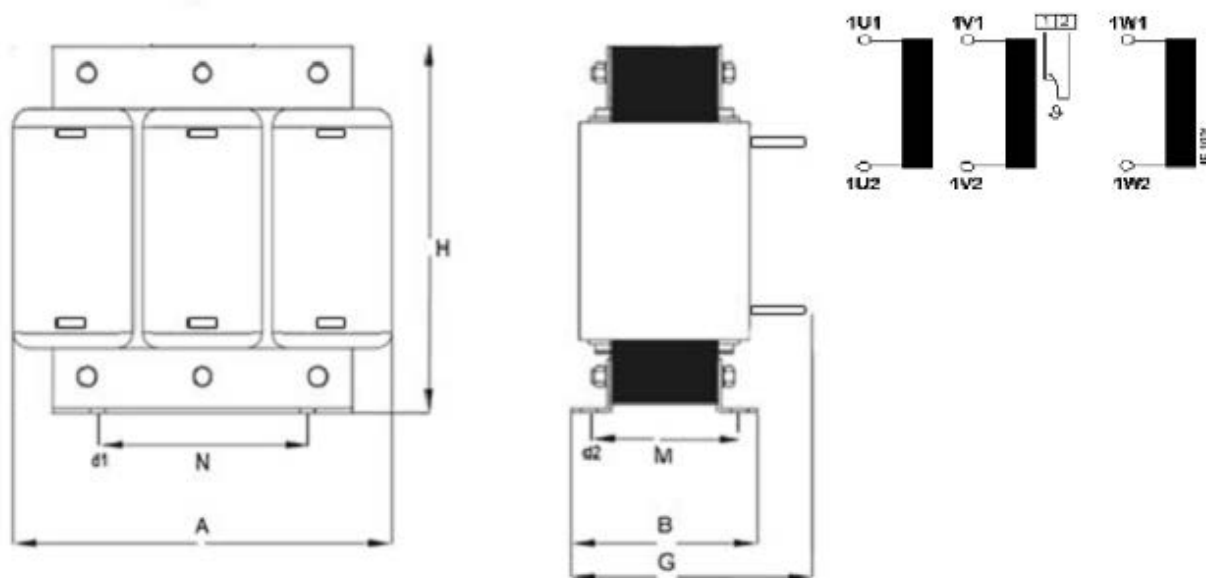
- Highest linearity
- Temperature switch in standard series
- With mounting plate to EN 60852
- International approvals
- Highest life time by high quality materials
- Low losses
- High overloading capability
- Low weight due to aluminium windings
- Safety device, temperature micro switch
- Low noise

Technical data and specifications		
De-tuning factor	P [%]	5.67
Effective filter output	Q _C [kvar]	25
Rated voltage ¹	V _R [V]	400
Rated frequency	f _r (Hz)	50
Ambient temperature/Insulation class		40 °C/F
Capacitance, delta (tot.)	C [µF]	469 (= 3 x C delta)
Inductivity	L [mH]	1.22
Linear up to	I _{LR} [A]	2.08 x I1
Effective current ²	I _{rms} [A]	46.1
Rated current to EN 61558	I _{LR} [A]	41.5
Rated harmonic voltages (3 rd /5 th /7 th)	[%]	0.5/6/5/3.5/3.0
Temperature protection (NC)		yes
Total losses	P _D [W]	130
Total weight	[kg]	17

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

²⁾ $I_{\text{eff}} = \sqrt{(I_1^2 + I_3^2 + \dots I_x^2)}$

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

Preliminary data
Dimensional drawing

Dimensions (mm)

B	124	H	220		
G	160	A	255		
d1	10	N	185		
d2	15	M	100		
d3	M8				

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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