



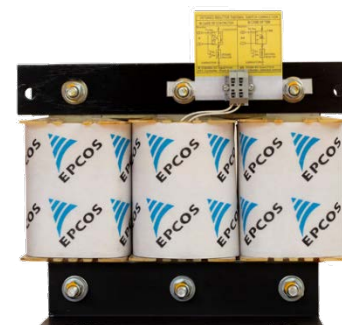
Film Capacitors - Power Factor Correction

Harmonic Filter Reactor

Series/Type: B44066D***E***
Ordering code: B44066D5050E400
Date: 2021-01-15
Version: 1

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

De-tuning factor p	5.67	%
Effective filter output Q_C	50	kvar
Rated voltage V_R ¹⁾	400	V
Rated frequency f	50	Hz
Ambient temperature / Insulation class	40 / H	°C
Capacitance C delta (tot.)	939	µF
Inductivity L	3 • 0.612	mH
Linear up to	150	A
Effective current I_{RMS} ²⁾	92.08	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	195	W
Total weight	25	kg
Winding	Aluminum foil	-

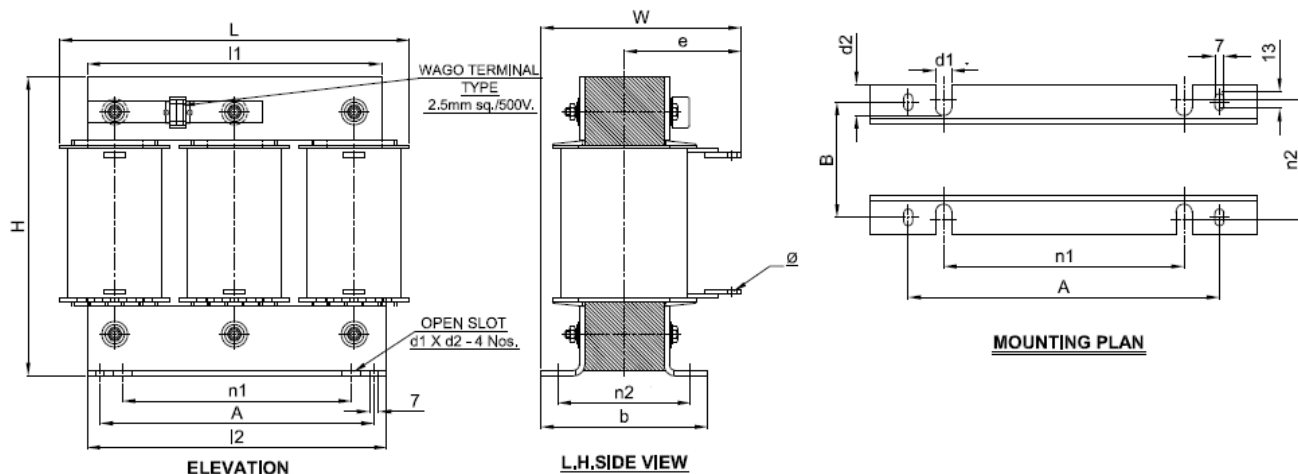
¹⁾ Voltage rise up to 106% of rated voltage is considered in current I_{eff} .

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

Connection

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

Reference standard IEC60076-6

Dimensional drawings

Dimensions

L/mm	285	b/mm	185
H/mm	210	e/mm	95±5
W/mm	190±5	d1/mm	10.8
l1/mm	235	d2/mm	15.5
l2/mm	235	A	175
n1/mm	150	B	165
n2/mm	168±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.

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