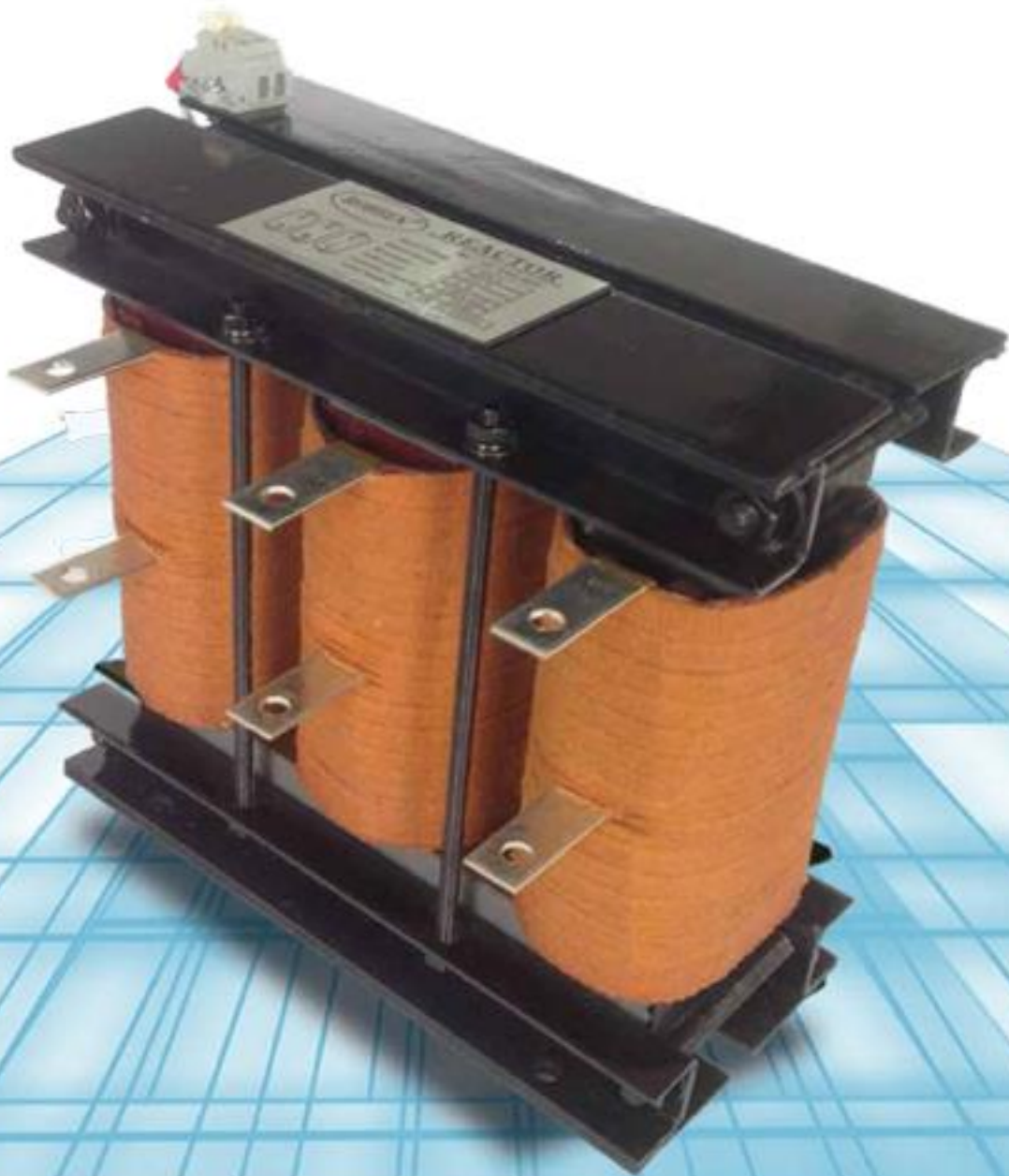




REACTOR



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REACTOR

Capacitors and banks 50Hz
Reference standards: IEC 60289

CONSTRUCTION TECHNOLOGY:

- Three phase harmonic block REACTOR with high linearity, designed and sized for a high harmonic load and tuned to the capacitors. The RC-type Reactor ensures a lengthy service life, extremely low losses and low noise emission during operation.
- The Core of the reactor consists of a magnetic plate made of top-grade iron with low-loss oriented grain with low losses.
- The WINDING is made with electrolytic copper conductors.



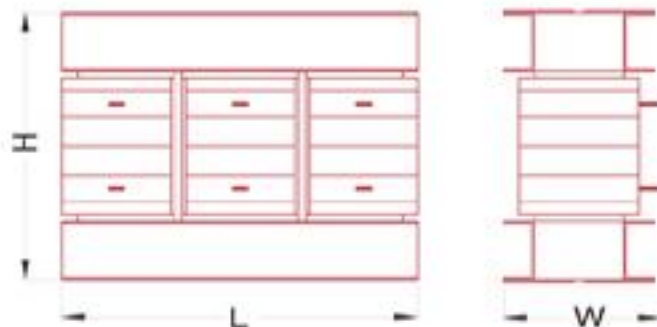
TECHNICAL PARTICULARS:

- Rated Voltage (Un) : 400 - 440VAC
- Rate frequency : 50Hz
- Linearity : 2 In
- Tolerance on the inductance : $\pm 3\%$
- Ambient temperature : $+ 40^{\circ}\text{C}$
- Max. operating over temperature : $+ 60^{\circ}\text{C}$
- Max. harmonic distortion (in current) : $1.3 \text{ In}(250\text{Hz}) - 1.15 \text{ In}(350\text{Hz})$
permitted in continuous operation.
- Max. harmonic distortion (in voltage) : 1.05Un
permitted in continuous operation.
- Saturation current : 2 In
- Insulation class : H
- Level of insulation between core and winding. : 3kV
- Installation : Indoor
- Cooling : Natural or force air
- Degree of protection : IP00
- Fixing : With slots on base brackets
- Rated Voltage (Un): 400/440VAC
- Rate frequency: 50Hz
- Three phase, dry, with magnetic circuit, impregnated.
- Cooling: natural or forced air
- Degree of protection: IP00
- Class: H

ROBBEN[®] REACTOR

Capacitors and banks 50Hz
Reference standards: IEC 60289

- Tolerance on the inductance: $\pm 3\%$
- Level of insulation between core and winding: 3kV
- Thermal protection connected on terminal block 250VAC 2A.



No	Referency	System Voltage (VAC)	Capacitor Voltage (VAC)	Associated Capacitor Bank (KVAR)	Dimension			Weight (Kg)
					W (mm)	L (mm)	H (mm)	
1	RC06 - 230.015	210	230	15	130	220	250	17
2	RC06 - 230.020			20	140	220	250	21
3	RC06 - 230.025			25	150	220	250	24
4	RC06 - 230.030			30	160	220	250	27
5	RC06 - 230.040			40	160	260	300	29
6	RC06 - 230.050			50	170	260	300	32

No	Referency	System Voltage (VAC)	Capacitor Voltage (VAC)	Associated Capacitor Bank (KVAR)	Dimension			Weight (Kg)
					W (mm)	L (mm)	H (mm)	
1	RC06 - 440.015	400	440	15	130	220	250	17
2	RC06 - 440.020			20	140	220	250	21
3	RC06 - 440.025			25	150	220	250	24
4	RC06 - 440.030			30	160	220	250	27
5	RC06 - 440.040			40	160	260	300	29
6	RC06 - 440.050			50	170	260	300	32
7	RC06 - 440.060			60	180	260	300	36
8	RC06 - 440.075			75	180	300	320	40
9	RC06 - 440.090			90	190	300	320	46
10	RC06 - 440.100			100	200	300	320	52

No	Referency	System Voltage (VAC)	Capacitor Voltage (VAC)	Associated Capacitor Bank (KVAR)	Dimension			Weight (Kg)
					W (mm)	L (mm)	H (mm)	
1	RC07 - 440.015	400	440	15	140	220	250	19
2	RC07 - 440.020			20	150	220	250	23
3	RC07 - 440.025			25	160	220	250	26
4	RC07 - 440.030			30	170	220	250	29
5	RC07 - 440.040			40	170	260	300	32
6	RC07 - 440.050			50	180	260	300	35
7	RC07 - 440.060			60	190	260	300	39
8	RC07 - 440.075			75	190	300	320	43
9	RC07 - 440.090			90	200	300	320	49
10	RC07 - 440.100			100	210	300	320	55

* Other characteristics can be made on request.

ROBBEN[®] REACTOR

Capacitors and banks 50Hz
Reference standards: IEC 60289

TECHNICAL DATA:

- Rated Voltage (Un): 400/415 V three phase 50Hz
- Three phase, dry, with magnetic circuit, impregnated
- Degree of protection: IP00
- Class: H
- Tuning order (relative impedance): 4.3 (5.45%) ; 4.1 (6%) ; 3.8 (6.9%) ; 2.7 (13.7%)
- Tolerance on L per phase: ± 3%

$$\text{Maximum permissible current: } I_{mp} = \sqrt{[(1,1,1)^2 + I_3^2 + I_5^2 + I_7^2 + I_{11}^2]}$$

- $I_{mp} = 1.31 \times I$ for tuning order 4.3

- $I_{mp} = 1.31 \times I$ for tuning order 3.8

- $I_{mp} = 1.31 \times I$ for tuning order 2.7

- Harmonic current spectrum:

In % of current (I_1)	Tuning order 4.3	Tuning order 4.1	Tuning order 3.8	Tuning order 2.7
Current I_3	2%	2%	3%	6%
Current I_5	69%	55%	44%	17%
Current I_7	19%	15%	13%	6%
Current I_{11}	6%	6%	5%	2%

- Insulation level: 1.1kV
- Thermal withstand I_{sc} : 25 x I_{rms} , 2 x 0.5 second.
- Thermal protection connected on terminal block 250 VAC 2A.

