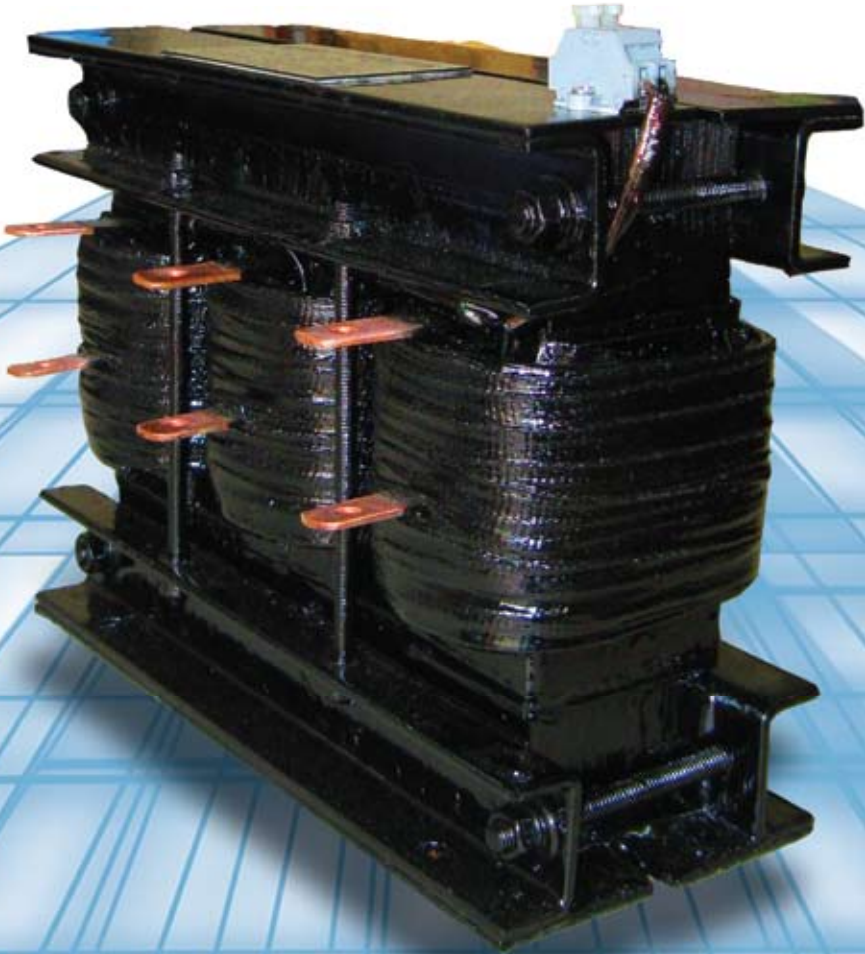


ROBBEN[®]

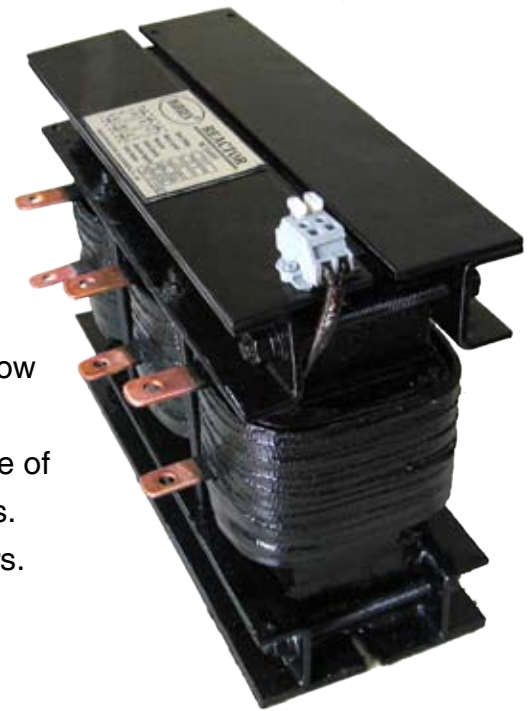
REACTOR





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:

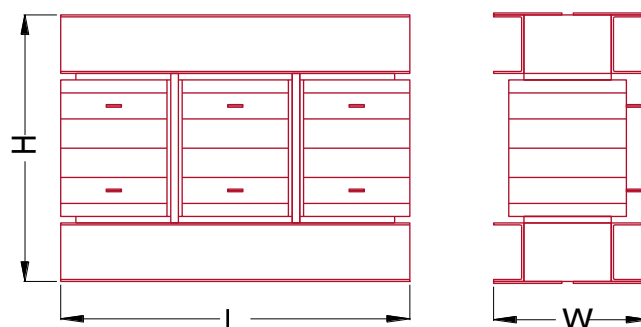
- Rated Voltage (U_n) : 400 - 440 VAC
- Rate frequency : 50 Hz
- Linearity : 2 In
- Tolerance on the inductance : 3%
- Ambient temperature : + 40°C
- Max. operating over temperature : + 60°C
- Max. harmonic distortion (in current) : 1.3 In(250Hz) - 1.15 In(350Hz) permitted in continuous operation.
- Max. harmonic distortion (in current) : 1.05 U_n permitted in continuous operation.
- Saturation current : 2 In
- Insulation class : H
- Level of insulation between core and winding. : 3kW
- Installation : Indoor
- Cooling : Natural or force air
- Degree of protection : IP 00
- Fixing : With slots on base brackets



REACTOR

Capacitors and banks 50Hz
 Reference standards: IEC 60289

- Rated Voltage (Un): 400/415 VAC
- Rate frequency: 50Hz
- Three phase, dry, with magnetic circuit, impregnated.
- Cooling: natural or forced air
- Degree of protection: IP00
- Class: H
- Tolerance on the inductance: $\pm 3\%$
- Level of insulation between core and winding: 3kV
- Thermal protection connected on terminal block 250VAC 2A.



Reference	Voltage (V)	Associated Capacitor Bank (Kvar)	Dimension			Weight (kg)
			W (mm)	L (mm)	H (mm)	
RC 40012	400	12.5	125	210	160	17
RC 40025	400	25	133	260	200	22
RC 40050	400	50	143	300	260	42
RC 400100	400	100	153	330	300	62
RC 44020	440	20	128	260	200	20
RC 44025	440	25	133	260	200	22
RC 44050	440	50	143	300	260	40
RC 440100	440	100	153	330	300	62
RC 21020	210	20	128	260	200	20
RC 21025	210	25	133	260	200	22
RC 21050	210	50	143	300	260	40
RC 210100	210	100	153	330	300	62

* Other characteristics can be made on request.



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%) ; 3.8 (6.9%) ; 2.7 (13.7%)
- Tolerance on L per phase: $\pm 3\%$

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

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

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

- $I_{mp} = 1.31 \times I_1$ for tuning order 2.7

- Harmonic current spectrum:

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

