



## RZ-12,5-400

RZ-12,5-400, Reactors III for detuned filters

Code: P73117.

- > L(mH): 3,05
- > For capacitor: CLZ-FP-46/15
- > In (A): 18
- > Frequency (Hz): 50
- > kvar (400 V): 12,5
- > Losses: 57
- > Un (V): 400

### Description

**CIRCUTOR** has a complete range of detuned reactors,  $p = 7\%$ , with a resonance frequency of 189 Hz for 50 Hz networks (or, on demand, 227 Hz for 60 Hz networks). This is the most frequent tuning value to avoid any resonance with the 5th harmonic and over. The set of capacitors-reactors absorbs part of the current of the 5th harmonic and acts as a detuned filter for higher frequencies. In some installations, anyway, other value of  $p(\%)$  can be required, for example, 8,7 % (170 Hz), 14 % (134 Hz).... **CIRCUTOR** can manufacture reactors adapted to any power,  $p(\%)$ , frequency, voltage ( $U_n \leq 1000$  VAC).

Reactors for low power rating, **RZ** range, are built with low losses magnetic sheets and coiled with aluminum wires. A terminal block for the connection of the reactor is fitted. Higher powers are covered by RBH range. These reactors are based on a magnetic sheet core with multiple air gaps, which provides them with excellent characteristics and low loss ratios.

Both **RZ** and **RBZ** reactors are subjected to a varnish vacuum impregnation, based on polyester resin, to increase the insulation, providing a greater mechanical resistance and reducing the level of noise.

### Application

**RZ** and **RBZ** detuned reactors have been specially designed for their use in installations with capacitor banks with considerably high harmonic distortion rates. The reactors must be connected in series to the proper power capacitor for the satisfactory protection of the own capacitors and to avoid the resonance effects in the installation.



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Reactors

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### Specifications

#### AC power supply

Frequency	50 Hz
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#### Electrical characteristics

Permanent overload	1,17 x In
Linearity (5% L)	1,75 x In
Maximum transient current	2 In (1 min)
Voltage	400 V, on request: up to 1000 V
Tolerance L	± 5 %
L value (mH)	3.06
Insulation voltage, circuit	3 kV

#### Electrical characteristic

Overvoltage factor (p %)	7 % (189 Hz)
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#### Mechanical characteristics

Size (mm) width x height x depth	180 x 192 x 110 (mm)
Envelope	Conductor type: Aluminium strip / copper cable
Weight (kg)	7

#### Environmental characteristics

Thermal Class	class F (+155 °C) On request: class H (+180 °C)
Protection class	IP 00
Installation, location, position.	Inside
Ambient temperature	-10 ... +45 °C

#### Standards

Standards	UNE-EN 60289, IEC 60076
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#### Protection

Circuit breaker type	9125°C NC thermostat
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#### RZ-RBZ

Reactors III for detuned filters

CODE	TYPE	L(mH)	For capacitor	In (A)	Frequency (Hz)	kvar (400 V)	Losses	Un (V)	P%
400 Vac, 50 Hz, f resonance = 189 Hz / p= 7%									



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CODE	TYPE	L(mH)	For capacitor	In (A)	Frequency (Hz)	kvar (400 V)	Losses	Un (V)	P%
P73110.	RZ-5-400	7,66	CLZ-FP-46/6,25	7,2	50	5	26	400	7%
P73112.	RZ-6,25-400	6,1	CLZ-FP-52/10	9	50	6,25	33	400	7%
P73115.	RZ-10-400	3,83	CLZ-FP-46/12,5	15	50	10	52	400	7%
P73117.	RZ-12,5-400	3,05	CLZ-FP-46/15	18	50	12,5	57	400	7%
P73120.	RZ-15-400	2,55	CLZ-FP-46/19	22	50	15	59	400	7%
P73125.	RBZ-20-400	1,91	CLZ-FP-46/25	29	50	20	79	400	7%
P73130.	RBZ-25-400	1,53	CLZ-FP-46/30	36	50	25	93	400	7%
P73135.	RBZ-30-400	1,27	2 x CLZ-FP-46/19	43	50	30	124	400	7%
P73140.	RBZ-40-400	0,95	2 x CLZ-FP-46/25	58	50	40	149	400	7%
P73145.	RBZ-50-400	0,76	2 x CLZ-FP-46/30	72	50	50	189	400	7%
P73150.	RBZ-60-400	0,63	3 x CLZ-FP-46/25	87	50	60	210	400	7%
P73155.	RBZ-80-400	0,48	3 x CLZ-FP-46/33,3	115	50	80	241	400	7%



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## Dimensions

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