

RBZ-25-400, Reactors III for detuned filters

Code: P73130.

> L(mH): 1,53

> For capacitor: CLZ-FP-46/30

> In (A): 36

> Frequency (Hz): 50 > kvar (400 V): 25

> Losses: 93 > 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 (Un \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.



Page 1 of 4





Reactors

Code: P73130.

Specifications

AC power supply	
Frequency	50 Hz
Electrical characteristics	
Permanent overload	1,17 x ln
Linearity (5% L)	1,75 x ln
Maximum transient current	2 ln (1 min)
Voltage	400 V,on request: up to 1000 V
Tolerance L	±5%
L value (mH)	1.53
Insulation voltage, circuit	3 kV
Electrical characteristic	
Overvoltage factor (p %)	7 % (189 Hz)
Mechanical characteristics	
Size (mm) width x height x depth	235 x 165 x 125 (mm)
Envelope	Conductor type: Aluminium strip / copper cable
Weight (kg)	14
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
Protection	
Circuit breaker type	9125°C NC thermostat

RZ-RBZ

Reactors III for detuned filters

CODE	TYPE	L(mH)	For capacitor	In (A) Frequency (Hz)	kvar (400 V)	Losses	Un (V)	Р%	
------	------	-------	---------------	-----------------------	-----------------	--------	--------	----	--

400 Vac, 50 Hz, f resonance = 189 Hz / p=7%







Reactors

Code: P73130.

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%



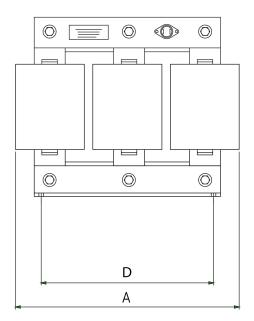


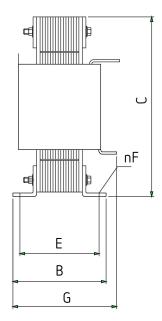


Reactors

Code: P73130.

Dimensions





Tipo A mm B mm C mm D* mm E* mm F mm G mm kg RBZ-20-400 235 125 165 150 95 7 145 14 RBZ-25-400 235 125 165 150 95 7 145 14
RB7-25-400 235 125 165 150 95 7 145 14
102 20 100
RBZ-30-400 255 125 200 160 95 9 150 19
RBZ-40-400 255 125 200 160 95 9 150 20
RBZ-50-400 255 145 220 160 115 9 175 25
RBZ-60-400 255 145 240 180 115 9 175 28
RBZ-80-400 305 155 255 180 115 11 190 31

Tipo	A mm	B mm	C mm	D* mm	E* mm	F mm	G mm	kg
RBEZ-40-400	300	145	235	160	113	9	180	30
RBEZ-50-400	300	145	235	160	113	9	180	30
RBEZ-60-400	300	145	235	160	113	9	180	30
RBEZ-80-400	345	155	255	180	121	11	195	40
+ D. I								

* Distance between fixations

