

RBEZ-60-400

RBEZ-60-400, Reactor

Code: P73250.

> L(mH): 1,89
> For capacitor: CFB-46/74-6B
> In (A): 51 A
> Frequency (Hz): 50
> kvar (400 V): 60
> Losses: 252

Description

CIRCUTOR has standardised the reactors of the REZ / RBEZ series for their use in static capacitor banks. The best operation of the unit requires the reactors to be connected within the triangle made p of the capacitor-reactor group. At the same power rating, the REZ / RBEZ reactors have a nominal current value that is 1.73 times lower and an inductance value that is 3 times higher than that in an RZ / RBZ reactor. There is a standard range of 400 V rejection reactors with p = 7%, with a resonance frequency of 189 Hz for 50 Hz networks (or 227 Hz on demand for 60 Hz networks). In addition, reactors can be manufactured on demand for static capacitor banks adapted to any value of the power rating, p%, voltage and frequency. REZ-type low-power reactors are built with low-loss plates and are coiled with copper wire. The connection is made using suitable terminals. In the case of higher power ratings, RBEZ reactors are used, with a magnetic plate nucleus and multiple air gaps, which offer excellent features and a low loss ratio. The coils are made with an aluminium band (or copper band, on demand). The input and output connections run through a busbar. Both REZ and RBEZ type reactors are impregnated with a varnish in a vacuum to increase insulation and reduce noise levels.

Application

The rejection reactors of the REZ / RBEZ series have been specifically designed for use in static capacitor banks in installations with a high harmonic content. The reactors must be connected in series with each capacitor for adequate protection of the capacitors and the static operations module, and to avoid resonance effects in the installation.



RBEZ-60-400

Three-phase reactors for static capacitor banks

Code: P73250.

Specifications

AC power supply	
Frequency	50 Hz

Electrical characteristics	
Permanent overload	1,17 In
Linearity (5% L)	1,8 In
Maximum transient current	2 In (1 min)
Voltage	400 V,on request: up to 1000 V
Tolerance L	± 5 %
L value (mH)	1.89
Insulation voltage, circuit	4 kV

Electrical characteristic	
Overvoltage factor (p %)	7 % (189 Hz)

Mechanical characteristics	
Size (mm) width x height x depth	180 x 235 x 300 (mm)
Envelope	Conductor type: Aluminium strip
Weight (kg)	30

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	90°C NC thermostat

REZ-RBEZ
Reactors III for detuned static filters for FRE static switching bank

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

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Three-phase reactors for static capacitor banks

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CODE	TYPE	L(mH)	For capacitor	In (A)	Frequency (Hz)	kvar (400 V)	Losses	P%
P73210.	REZ-5-400	23,67	CFB-46/6-6B	5 A	50	5	63	7%
P73215.	REZ-10-400	11,27	CFB-46/12,5-6B	9 A	50	10	69	7%
P73220.	REZ-15-400	7,5	CFB-46/19-6B	13 A	50	15	70	7%
P73225.	REZ-20-400	5,68	CFB-46/25-6B	17 A	50	20	91	7%
P73230.	REZ-25-400	4,68	CFB-46/30-6B	21 A	50	25	110	7%
P73235.	REZ-30-400	3,84	CFB-46/37-6B	26 A	50	30	109	7%
P73240.	RBEZ-40-400	2,84	CFB-46/50-6B	35 A	50	40	179	7%
P73245.	RBEZ-50-400	2,29	CFB-46/62-6B	42 A	50	50	189	7%
P73250.	RBEZ-60-400	1,89	CFB-46/74-6B	51 A	50	60	252	7%
P73255.	RBEZ-80-400	1,42	CFB-46/100-6B	68 A	50	80	263	7%

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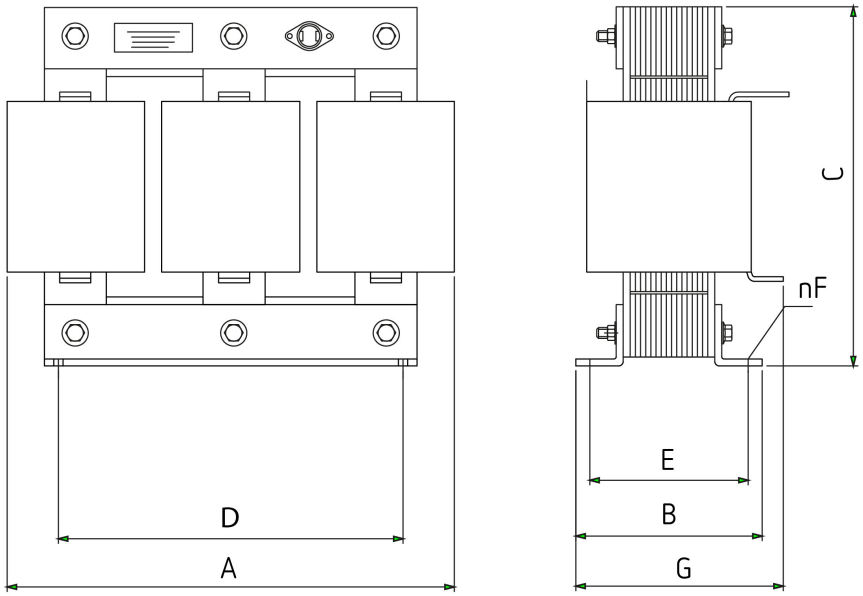


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Dimensions



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
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

* Distance between fixations

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