LRBZ 04-300

LRBZ 04-300, Reactor

Code: P7330M.

> L(mH): 0,1
> In (A): 300
> Losses: 355
> Motor P.: 160
> Motor P. (CV): 220

Description

The motor speed regulation equipment, frequency variators, UPS units, etc. generate alterations in the network, which affect other loads in the installation of the operation of the equipment.
The **LRZ / LRBZ** reactors connected to the input on the network side of the equipment can attenuate voltage peaks and reduce the harmonic distortion generated by the power electronics. The **LRZ / LRBZ** Reactors for filtering can reduce the current harmonics in any converter from 40... 50 % to values around 20 %. In addition, they reduce the shortcircuit current and increase the safety of the converter's semi-conductors. When installed on the motor side, they can attenuate harmonic frequencies caused during switching operations.

- Low-powered reactors, **LRZ** type, are built with plates with low losses and are coiled with copper wire. The connection is achieved with the adequate terminals.
- In the case of higher currents, **LRBZ** reactors are used, with a magnetic plate nucleus and multiple steel cores, which offer excellent characteristics and a low loss ratio. Copper band coils (or aluminium band, on demand). The connections run through a plate.
- Both **LRZ** and **LRBZ** type reactors have a vacuum varnish sealing to increase the insulation, providing a greater mechanical resistance and reduce the level of noise.

Application

The reactors of the **LR / LRB** series are prepared and can be used on the network and motor sides. They attenuate micro-drops and peaks during the initial connection and switching operations, and they reduce the rate of harmonics from the network current.

LRBZ 04-300

Reactors for filtering for power converters (network side)

Code: P7330M.

Specifications

Mechanical characteristics

Size (mm) width x height x depth	280 x 300 x 164 (mm)
Envelope	Conductor type: copper strip (or aluminium on request)

Environmental characteristics

Thermal Class	"class F (+155 °C) On request: class H (+180 °C)"
Protection class	IP 00

Electrical characteristics

Linearity (5% L)	1,5 In
Maximum transient current	2 In (1 min)
Voltage	up to 1000 V~
L value (mH)	0.1
Insulation voltage, circuit	4 kV

Current measurement circuit

Nominal current (In)	According to table. Other values on request
Allowable overload	1,7 In
Permanent overload	1,7 In

Standards

Standards	UNE-EN 60289 , IEC 60076

LRZ / LRBZ
Filter reactors for power converters (network side), 50 Hz

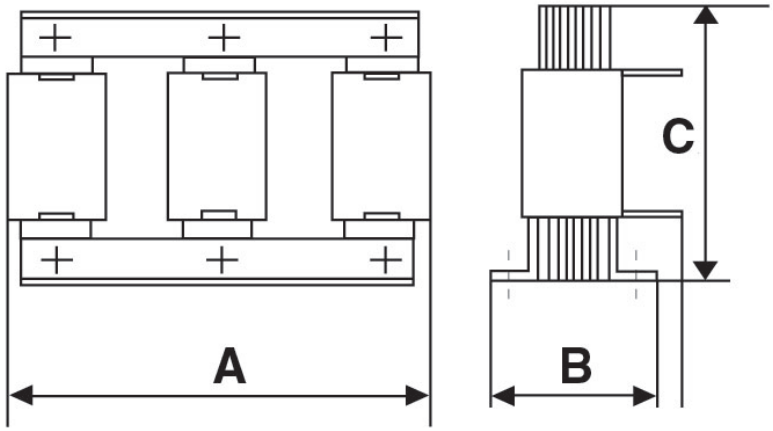
CODE	TYPE
P7330J.	LRZ 04-033
P7330B.	LRZ 04-050
P7330E.	LRBZ 04-080
P7330G.	LRBZ 04-115
P7330J.	LRBZ 04-185
P7330K.	LRBZ 04-200
P7330M.	LRBZ 04-300

LRBZ 04-300

Reactors for filtering for power converters (network side)

Code: P7330M.

Dimensions



Tipo	A mm	B mm	C mm	kg
LRBZ 04-080	180	135	160	13
LRBZ 04-095	237	120	195	18
LRBZ 04-115	237	131	195	21
LRBZ 04-150	237	131	215	26
LRBZ 04-185	242	154	256	32
LRBZ 04-200	245	154	256	36
LRBZ 04-250	285	154	300	44
LRBZ 04-300	280	164	300	48