QR12.5 | QR SINGLE-PHASE LINE REACTORS WITH ENCLOSURE AND RESIN FILLED.

POLYLUX®

Single-phase line reactors for harmonic filtering with bimetal over-temperature protection, in IP20 enclosure and resin filled
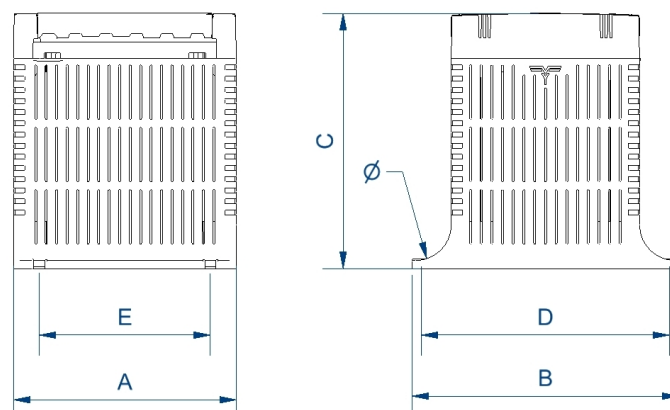
Technical characteristics

Rated current	12,5 A
Motor rating	1,5 kW / 2 CV
Line voltage	220 - 260 V
Reactor	1,757 mH (50 Hz)
Voltage drop	3% (50 Hz)
Frequency	50/60 Hz
Protection degree	IP-20
Thermal protection	Thermal protection (NC) 120°C
Cooling	ANAN
Ambient temperature	45ºC
Temperature rise	Class B - 130ºC
Insulation	Class H - 180ºC
Windings	Class HC - 200 ºC
Test voltage	3 kV (1 min, 50 Hz)
Standards	IEC/EN/UNE-EN 60076-6, CE
Mounting	Screws
Weight	1,4 kg

Electric scheme

$U1$ —⌒⌒⌒⌒— $V1$

K   K1
NC thermal
protection

Dimensions

Dimensions (AxBxCxDxE): 106x123x122x111x74 mm 5∅

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Features

Reactor

Advantages of resin technology:

- Protection against corrosive environments
- Protection against high vibration levels
- Protection against electrodynamic efforts
- Reduction of noise level
- Increase of product's lifespan

IP-20 enclosure in last generation V-0 fireproof metallic polymer box according to UL94

Safety class I, convertible in class II

Includes thermal protection against overtemperatures

Possibility of tailor-made manufacturing

Technical remarks about the use of line reactors:

- Reduction of the current harmonics generated by the equipment, reducing current consumption and improving power factor
- Reduction of the peak factor of the current wave, increasing equipment's lifespan
- Attenuation of the microcuts of the feeding voltage produced by the converter, source of the bad functioning of computers, robots and other equipments

Applications

- Single-phase low rating installations where harmonic filtering is required, such as those with non-linear loads, rectifiers, single-phase frequency converters, power supplies, etc.
- Environments with high humidity or corrosion, as well as vibrations and voltage peaks, due to the resin coating.

Downloads