

RMV

Choke reactor for capacitor banks



Description

Choke REACTORS are required to limit the transient currents produced during the connection of capacitors.

CIRCUTOR's **RMV** units are encapsulated in epoxy resin, which guarantees the degree of insulation required.

Application

The connection of capacitor banks has very high associated transient currents and voltages.

The **IEC 60871-1** Standard defines the maximum value that can be supported by a capacitor bank as the peak connection value. This value is 100 times its nominal current.

When this value is exceeded, **RMV** choke REACTORS must be installed. These REACTORS are in charge of limiting the transient current to values that can be supported by the capacitors. The inductance value is variable, depending on the installation's conditions and, basically, on the following parameters:

- Short-circuit power of the installation
- Existence of more capacitor banks
- Interrupting power of automatic switches.

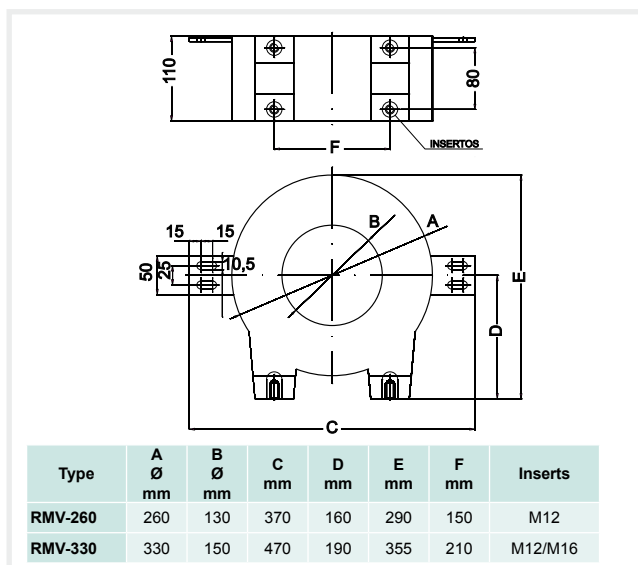
The peak current value of the residual connection must also be lower than the interrupting power of the switch unit after the reactor has been installed

Features

Features	
Short-duration nominal current	$43 I_n / 1 \text{ s}$
Dynamic current	$2.5 I_t$
Insulation level	12 kV (28/75)
Ambient conditions	
Operating temperature	Category B
Mean temperature	40 °C
Build features	
Type	Encapsulated in resin Air core
Fittings	M12 / M16, depending on the type
Dimensions (mm)	depending on the type
Weight	depending on the type (see table on the top)
Colour	colour RAL 8016
Standard	
IEC60289	

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**Dimensions****References****RMV-260**

I (A)	L (µH)	Weight (kg)	Type	Code
50	350	13	RMV - 260 - 50 - 350	R80628
60	250	14	RMV - 260 - 60 - 250	R80637
100	100	16	RMV - 260 - 100 - 100	R80664
125	50	14	RMV - 260 - 125 - 50	R80672
175	30	14	RMV - 260 - 175 - 30	R80691

RMV-330

I (A)	L (µH)	Weight (kg)	Type	Code
60	450	20	RMV - 330 - 60 - 450	R80739
75	350	21	RMV - 330 - 75 - 350	R80748
90	250	26	RMV - 330 - 90 - 250	R80757
125	100	22	RMV - 330 - 125 - 100	R80774
200	50	22	RMV - 330 - 200 - 50	R807A2
250	30	23	RMV - 330 - 250 - 30	R807B1

The RMV reactor selection parameters are:

* Maximum working current (1.43 times I_n of the unit)

* Inductance required in µH

* Insulation voltage kV

The insulation voltage is 12 kV (28/75). Other voltages, on demand

The thermal current is 43 I_n / 1 s. Other values, on demand



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