

EMB / EMF

Static switching units (three-phase)



Description

The static switching modules of the **EM** Series are the basic building block for the construction of static capacitor banks for Power factor correction purposes.

These capacitor banks use thyristors instead of the classic contactors for the connection of each large group of capacitors and they are ideal in installations where the leakage current suffers quick and large fluctuations (load changes in intervals that can range from split seconds to 8 or 10 seconds).

Application

The static switching units of the **EM** Series have been designed to connect and disconnect capacitors in milliseconds.

They can be used to build capacitors with various steps, or for the individual compensation of a load that must be compensated instantly due to connection / disconnection deficiencies, for example, in welding units, cranes, lifts, etc.

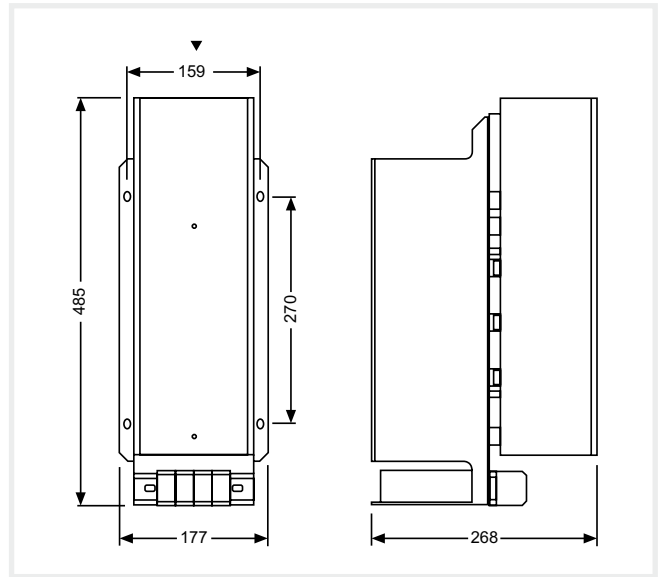
Features

Features	
Standard voltages	230, 400 V a.c. (other voltages up to 660 V a.c., please ask)
Frequency	50 / 60 Hz
Nominal switched power	See table with types
Overload capacity	1.5 I _n during 1 min
Protections	
Fuses	NH adapted to the gauge (type EMF)
du / dt	RC protection at 1000 V/μs
Thermostat	90 °C
di / dt	100 A/μs (L=12 μH, not included, it must be installed in series with the capacitor)
Ambient conditions	
Maximum ambient temperature	40 °C
Maximum temperature of the dissipator	80 °C
Construction features	
Degree of protection	IP 00
Weight	10.5 kg
Standards	
EN 60.439 (IEC 439, UNE EN 60439), IEC 146, CSA 22.2 No. 14	

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Dimensions



References

With fuses

kvar	Weight (kg)	Dimensions (mm) width x height x depth	Type	Code
25	10,5	177 X 485 X 268	EMF-25/230	R41111
37,5	10,5	177 X 485 X 268	EMF-37.5/230	R41112
45	10,5	177 X 485 X 268	EMF-45/230	R41114
40	10,5	177 X 485 X 268	EMF-40/400	R41133
60	10,5	177 X 485 X 268	EMF-60/400	R41136
80	10,5	177 X 485 X 268	EMF-80/400	R41137

With terminals

kvar	Weight (kg)	Dimensions (mm) width x height x depth	Type	Code
25	10	177 X 485 X 268	EMB-25/230	R41211
37,5	10	177 X 485 X 268	EMB-37.5/230	R41212
45	10	177 X 485 X 268	EMB-45/230	R41214
40	10	177 X 485 X 268	EMB-40/400	R41233
60	10	177 X 485 X 268	EMB-60/400	R41236
80	10	177 X 485 X 268	EMB-80/400	R41237