



EMB-2PH-50-400

EMB-2PH-50-400, Static switching

Code: R41323.

> kvar (230 V): 27,5

> kvar (400 V): 50

Description

EMB-2PH static switching modules series are the building blocks for the construction of static capacitor banks for Power Factor Correction.

These capacitor banks use thyristors instead of the classic contactors for the connection of each capacitor stage and they are ideal in installations with fast and large load fluctuations (load changes from tents of seconds up to 8 or 10 seconds).

Application

EMB-2PH static switching modules have been designed to connect and disconnect capacitors in some milliseconds. They can be used to build capacitors with some stages, or for the individual compensation of a load that must be compensated instantly and which is not able to be disconnected such as welding machines, cranes, lifts, etc.



EMB-2PH-50-400

Three-phase static switching units for 3-terminal capacitors

Code: R41323.

Specifications

AC power supply

| | |
|-----------|----------|
| Frequency | 50/60 Hz |
|-----------|----------|

Mechanical characteristics

| | |
|----------------------------------|----------------------------------------------------------|
| Size (mm) width x height x depth | 200 x 220 x 200 (mm) |
| Ventilation | Fan: auxiliary voltage at 1x230 V~ (at terminals A1, A2) |
| Weight (kg) | 5,9 |

Environmental characteristics

| | |
|---------------------|---------------------------------|
| Protection class | IP 00 |
| Ambient temperature | 45 °C (máx) |
| Working temperature | 80 °C max. heatsink temperature |

Electrical characteristics

| | |
|---------------------------|------------------------------------------------------------------------------------|
| Maximum transient current | 1.5 In for 1 min |
| Voltage | Up to 3 x 440 V~ (without detuned filters) Up to 3 x 415 V~ (with detuned filters) |

Standards

| | |
|-----------|-----------|
| Standards | IEC 61439 |
|-----------|-----------|

Protection

| | |
|---------|----------------------------------------------------------------------------------------------------------|
| di / dt | 100 A/μs (L = 12 μH, not included, must be assembled in series with the condenser) |
| du / dt | RC protection at 1000 V/μs |
| Element | Fuses not included. External protection against overload and short circuits is required. 90°C thermostat |

EMB-2PH

Three-phase static switching units for 3-terminal capacitors

| CODE | TYPE | kvar (400 V) | kvar (230 V) |
|-----------------------------------------------------------|------------------|--------------|--------------|
| External 12VDC activation signal required. With terminals | | | |
| R41321. | EMB-2PH-25-400 | 25 | 12,5 |
| R41323. | EMB-2PH-50-400 | 50 | 27,5 |
| R41325. | EMB-2PH-80-400 | 80 | 45 |
| R4132M. | EMB-M-2PH-80-400 | 80 | 45 |

Maximum operating voltage: 3 x 440 Vac (415 Vac with detuned reactors) Polycarbonate cover for EMB-2PH



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Dimensions

