



OPTIM EMS-C-43,75-440

OPTIM EMS-C-43,75-440, Capacitor bank

Code: R4A309. DESCATALOGADO

- > Cable section (mm²): 1 x 25
- > Nr steps: 3
- > kvar (400 V): 36
- > kvar (440 V): 43,75
- > Man.Switch (A): Included
- > Composition: (6,25 + 12,5 + 25)
- > Use voltage (V): 440

Description

Optim EMS-C capacitor banks are designed for power factor correction in networks with highly fluctuating load variations. Their switching system is based on the use of solid state semiconductors and it allows the different steps to be connected and disconnected in only milliseconds.

With this system, transients are prevented between the connection and disconnection of the steps, obtaining an immediate response to the load fluctuations. In addition, the need for maintenance of the capacitor bank is reduced thanks to the absence of moving elements.

Application

The most common application is with individual loads or in installations where a quick compensation response is needed (for ex., welding units, motors for lifting units, lifts, etc.)



OPTIM EMS-C-43,75-440

Automatic static switching capacitor banks

Code: R4A309.

Specifications

AC power supply

| | |
|-----------------|---------------------------|
| Frequency | fn marcada en la etiqueta |
| Nominal voltage | Un marcada en la etiqueta |

Electrical characteristics

| | |
|----------------------|----------------------------------|
| Losses (W) | 1 W/kvar |
| Discharge resistance | 75 V / 3 min |
| Tolerance C | ± 10% |
| Voltage | 10 % (440 V for 400 V equipment) |

Mechanical characteristics

| | |
|----------------------------------|---|
| Size (mm) width x height x depth | 545 x 710 x 220 (mm) |
| Envelope | Exposi type with oven drying. RAL 7035 Grey / RAL 3005 Garnet |
| Thermal management | Natural outdoor ambient temperature ≤ 40 °C. For outside ambient temperature > 40 °C, the room where the battery is located must be cooled. |
| Weight (kg) | 34 |

Environmental characteristics

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|--|---|
| Protection class | IP 21 |
| Relative humidity (without condensation) | 80% |
| Working temperature | T° class D: Daily average: 45 °C, annual average: 35 °C, maximum during 1h: 55 °C |

Current measurement circuit

| | |
|----------------------|--------------------|
| Allowable overload | 1,3 In |
| Permanent overload | 1,3 In |
| Transformation ratio | Transformer In/5 A |

Standards

| | |
|---------------------------------------|---------------------------------------|
| Electrical safety, Maximum height (m) | 1000 máx. |
| Standards | UNE-EN 61921, UNE-EN 61642, IEC 60831 |

Protection

| | |
|----------------------|--|
| Element | Internal fuses and overpressure system |
| Circuit breaker type | Three-pole circuit breaker per step, curve C. Icc = 6 kA / 400 V |

Cable cross-section for installations with Un= 400 V. The installation company must ensure compliance with the low voltage directive at all times, in accordance with the characteristics of each installation and type of cable.