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## Description

The **OPTIM-EMK**-series capacitor banks have been designed for power factor correction in networks with fluctuating loads.

The power variations are relatively quick (measured in milliseconds) and the operation is thus carried out by thyristors, which are connected to a voltage controller board, so that the connection and disconnection of the capacitor is carried out with zero voltage difference.

Transients are prevented between the connection and disconnection of the steps, obtaining an immediate response to the load fluctuations.

## 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.)

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## Specifications

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 2400 x 1900 x 650 (mm) |
| Weight (kg) | 668 |

### OPTIM EMK
Automatic capacitor banks with static contactor, 50 Hz.

| CODE | TYPE | kvar (400 V) | kvar (440 V) | Cable section (mm2) |
|---|---|---|---|---|
| OPTIM EMk4 | | | | |
| R46420. | OPTIM EMK4-175-440 | 147 | 175 | 120 |
| R46422. | OPTIM EMK4-250-440 | 207 | 250 | 185 |
| R46424. | OPTIM EMK4-300-440 | 248 | 300 | 240 |
| R46425. | OPTIM EMK4-350-440 | 289 | 350 | 2x150 |
| R46426. | OPTIM EMK4-400-440 | 331 | 400 | 2x185 |
| OPTIM EMk6 | | | | |
| R46431. | OPTIM EMK6-400-440 | 331 | 400 | 2x185 |
| R46435. | OPTIM EMK6-450-440 | 372 | 450 | 2x185 |
| R46437. | OPTIM EMK6-550-440 | 455 | 550 | 2x240 |
| R46438. | OPTIM EMK6-600-440 | 496 | 600 | 2x240 |
| OPTIM EMk8 | | | | |
| R46442. | OPTIM EMK8-600-440 | 496 | 600 | 2x240 |
| R46444. | OPTIM EMK8-650-440 | 537 | 650 | 3x150 |
| R46450. | OPTIM EMK8-750-440 | 620 | 750 | 3x185 |
| R46455. | OPTIM EMK8-800-440 | 661 | 800 | 2x240 / 240 |
| OPTIM EMk10 | | | | |
| R46505. | OPTIM EMK10-850-440 | 702 | 850 | 2x240 / 240 |
| R46604. | OPTIM EMK10-950-440 | 785 | 950 | 2x240 / 2x185 |
| R46605. | OPTIM EMK10-1000-440 | 826 | 1000 | 2x240 / 2x185 |
| OPTIM EMk12 | | | | |
| R46606. | OPTIM EMK12-1050-440 | 868 | 1050 | 2x240 / 2x240 |
| R46608. | OPTIM EMK12-1150-440 | 950 | 1150 | 2x240 / 2x240 |
| R46609. | OPTIM EMK12-1200-440 | 992 | 1200 | 2x240 / 2x240 |

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.

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## Dimensions



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