

OPTIM EMK10-950-440, Static capacitor bank

Code: R46604.

- > Cable section (mm2): 2x240 / 2x185
- > kvar (400 V): 785
- > kvar (440 V): 950
- > Optional circuit breaker (A) : 1000+800
- > Optional manual switch (A): 1000+800
- > Composition: 50 + 9x100
- > Use voltage (V): 440

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.)

Circutor



Automatic capacitor banks with static system

Code: R46604.

Specifications

| Size (mm) width x height x depth 2100 x 1900 x 650 (mm) Fastening Vertical. Minimum distance between condensers 2 cm Verblation Natural or forced according to options Weight (kg) 551 Environmental characteristics IP 21 Protection class IP 21 Relative humidity (without condensation) 80% Working temperature T* class D: Daily average: 45 °C, annual average: 35 °C, maximum: 50 °C, minimu -25 °C Standards Certifications Certifications VDE 560 Electrical safety, Maximum height (m) 2000 Standards IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650 Current measurement circuit 1,3 In Allowable overload 1,3 In Permanent overload 1,0 On toosted Series according to type Two-spole circuit braker protection for battery and regulator operation Max Feat compoteristic staft built in the radiator itself to disconnet the step in case of high tuperature (90 °C) Optional Manual circuit braker at capactor bank header Circuit braker at capactor bank h | Discharge resistance | 75 V / 3 min |
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| | Optional | |

Circutor



Automatic capacitor banks with static system

Code: R46604.

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.



Automatic capacitor banks with static system

Code: R46604.

Dimensions

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