



OPTIM FRF-50-440

OPTIM FRF-50-440, Fixed capacitor with armonic filter

Code: R5X380.

- > Cable section (mm²): 25
- > kvar (400 V): 42
- > kvar (440 V): 50
- > Use voltage (V): 440

Description

The **FRF / FRM** Series capacitor banks with detuned filters have been designed for power compensation purposes in motors and transformers with a constant load level, a high content of harmonics and where there is a risk of resonance. Including:

- **FRF**: general protection with NH-00 fuses with a high rupture power (HRP) for the capacitor.
- **FRM**: general circuit breaker protection for the capacitor.

Application

Its application is mainly based on the compensation of transformers and motors. In general, it is used for the compensation of installations under constant loads and where there is a high content of harmonics in the network.



OPTIM FRF-50-440

Fixed capacitor with rejection reactance $p = 7\%$

Code: R5X380.

Specifications

Electrical characteristics

| | |
|-----------------------|------------|
| Reinforcement voltage | 440 V |
| Tolerance C | $\pm 10\%$ |

Mechanical characteristics

| | |
|----------------------------------|-----------------------|
| Size (mm) width x height x depth | 650 x 1060 x 420 (mm) |
| Weight (kg) | 85 |

Environmental characteristics

| | |
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| Relative humidity (without condensation) | 80% |
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Standards

| | |
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| Electrical safety, Maximum height (m) | 2000 m |
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Features / performance

| | |
|------------|--|
| Components | CF capacitor General protection by fuse with high breaking capacity (APR). NH-00 series. |
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Protection

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| Element | Individual protection of each step with fuses with high rupture power (HRP). NH-00 Series. |
|---------|--|

OPTIM FRF

Fixed capacitors with detuned reactor of P = 7% (fres=189 Hz), 50 Hz

| CODE | TYPE | kvar (400 V) | kvar (440 V) | Cable section (mm ²) |
|---|--------------------|--------------|--------------|----------------------------------|
| OPTIM FRF, fuse protection APR, 440 V, 50 Hz | | | | |
| R5X350. | OPTIM FRF-25-440 | 21 | 25 | 10 |
| R5X370. | OPTIM FRF-37,5-440 | 31 | 37,5 | 16 |
| R5X380. | OPTIM FRF-50-440 | 42 | 50 | 25 |
| R5X390. | OPTIM FRF-60-440 | 50 | 60 | 35 |
| R5X3A0. | OPTIM FRF-75-440 | 62 | 75 | 50 |
| R5X3B0. | OPTIM FRF-100-440 | 83 | 100 | 70 |

See CFB capacitor and RZ /RBZ reactor components in the Low Voltage Capacitor and Reactor Section. Cable cross-section for installations with $U_n = 400$ V. The installation company must ensure compliance with the low voltage directive at all times, in accordance with the particularities of each installation and type of cable



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Dimensions

