

OPTIM FRF-25-440, Fixed capacitor with armonic filter

Code: R5X350.

- > Cable section (mm2): 10
- > kvar (400 V): 21
- > kvar (440 V): 25
- > 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:

- $\circ$  FRF: general protection with NH-00 fuses with a high rupture power (HRP) for the capacitor.
- $\circ~$  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.

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Fixed capacitor with rejection reactance p = 7 %

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#### Specifications

Losses (W)	Dielectric: < 0.2 W/kvar Total: < 0.5 W/kvar
Discharge resistance	75 V / 3 min
Surge	11 % 8 h over 24 h 15 % up to 15 min over 24 hours 20 % up to 5 min over 24 hours 30 % up to 1 min over 24 hours
Reinforcement voltage	440 V
Tolerance C	±10 %
Mechanical characteristics	
Size (mm) width x height x depth	650 x 1060 x 420 (mm)
Fastening	Vertical
Ventilation	Natural or forced according to options
Weight (kg)	78
Environmental characteristics	
Protection class	IP 21
Relative humidity (without condensation)	80%
Current measurement circuit	
Permanent overload	1,3 In
Standards	
Electrical safety, Maximum height (m)	2000 m
Features / performance	
Components	CF capacitor General protection by fuse with high breaking capacity (APR). NH-00 series.
Protection	
Element	Individual protection of each step with fuses with high rupture power (HRP). NH-00 Series.

#### OPTIM FRF

Fixed capacitors with detuned reactor of  $\mathsf{P}=7\%$  (fres=189 Hz), 50 Hz

CODE	ТҮРЕ	kvar (400 V)	kvar (440 V)	Cable section (mm2)
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

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Fixed capacitor with rejection reactance p = 7 %

Code: R5X350.

CODE	ТҮРЕ	kvar (400 V)	kvar (440 V)	Cable section (mm2)
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 Un= 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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Fixed capacitor with rejection reactance p = 7 %Code: R5X350.

# Dimensions

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