



## AFQm-3WF-200C-480

AFQm-3WF-200C-480, Filtre actiu multifunció

Code: R7MF3F.

- > Sistema de mesura: 3 fils, 230...480 V
- > Corrent de fase (A): 200
- > Corrent de cresta (A): 400
- > Fixació: En sòl

### Descripció

The floor mounted **AFQm** multilevel active filters are the most complete solution for solving power quality problems in three-phase industrial, commercial or service installations caused by the presence of harmonics and the consumption of reactive power. These following characteristics and functions have been implemented in the cabinet type active filters:

- Filtering capacity per module of 100 A (400 ... 480 Vac) and 70 A (550 ... 690 Vac), capacity per cabinet between 100 ... 400 A (400 ... 480 Vac) and 70 ... 280 A (550 ... 690 Vac).
- Cabinets expandable with small-sized rack modules.
- Range for installations with 3 wires (3W model to 690 Vac) or 4 wires (4W model to 550 Vac).
- Multi-range voltage and dual frequency (50/60 Hz).
- Reduction of harmonic currents up to the fiftieth harmonic (2,500 Hz)
- Selection of harmonic frequencies to be filtered for maximum filter effectiveness.
- Power factor correction both inductive and capacitive .
- Phase current balancing, improvement of consumption in neutral (4W model).
- If higher filtering capabilities are required, the system can be expanded using AFQm racks connected in parallel (all filters/racks must be of the same 3- or 4-wire model).

### Aplicació

Solució ideal per a instal·lacions, amb gran quantitat de càrregues monofàsiques i trifàsiques que siguin generadores d'harmònics com ara ordinadors, SAI, lluminàries, aparells elevadors, aires condicionats amb variador, etc. També per a instal·lacions que requereixen una bona qualitat de subministrament amb vista a augmentar l'eficiència de la producció o a millorar la continuïtat de subministrament del sistema.



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### Especificacions

#### AC power supply

Installation category	4 kV, CAT III Clase 1
Consumption	4140 W
Frequency	50 / 60 Hz ( $\pm 5\%$ )
Nominal voltage	208 ... 480 V~ F-F ( $\pm 10\%$ )

#### Mechanical characteristics

Size (mm) width x height x depth	608 x 1890 x 812 (mm)
Envelope	Free-standing sheet steel cabinet, for installation indoors, without removable parts.
Connection type	Network: plate 40x5, Ground: Ring terminal 8 mm, Current: spring 2,5 mm <sup>2</sup> , Neutral: plate 80x10, Ethernet: RJ-45
Weight (kg)	252

#### Environmental characteristics

Protection class	IP 21 (IP 41 sota comanda) / IK10
Relative humidity (without condensation)	0 ... 95 %
Storage temperature	-20 ... +50 °C
Operating temperature	-10 ... +45 °C

#### Electrical characteristics

Conditional short-circuit current (Icc)	40 kA
Rated peak current Ipk	84 kA
Current crest factor	2:1
Maximum phase current	200 A (RMS)
Rated diversity factor (RDF), simultaneity	1

#### Característiques elèctriques

Sistema de terres	TN, TT
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#### Current measurement circuit

Transformation ratio	5 ... 5000 / 5A
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#### Comunicació xarxa

Protocol	TCP/IP, Modbus TCP
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#### Comunicacions xarxa

Tecnologia / Interfície	Ethernet
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#### Standards

Electrical safety, Maximum height (m)	3000 (2000 m without performance degradation)
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## AFQm-3WF-200C-480

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### Standards

IEC 61000-6-4, UNE-EN 55011, IEC 61000-6-2, IEC 62477-1, IEC 61439-1

### User interface

Display type TFT color, tàtil de 3,5"

### Measurement accuracy

Voltage harmonics (THD) 25 % (màx.)

### Features / performance

Phase compensation	Seleccionable
Reactive power compensation (Kvar)	Seleccionable
Filtering / Response time	2n ... 50° harmònic (seleccionable) / < 100 µs
Parallel assembly/installation	Fins a 100 unitats de diferent calibre. Connexió dels transformadors només en unitat Màster.
Priority scheduling	Seleccionable

### Power supply output

Power 152600 VA

### Comunicació sèrie

Protocol	Modbus/RTU
Tecnologia / Tipus	RS-485

### AFQm-C

Filtre actiu multinivell

CODI	TIPUS	Sistema de mesura	Corrent de fase (A)	Corrent de cresta (A)	Corrent màx. neutre (A)
R7JF6P.	AFQm-3WP-070C-690	3 fils, 400...690 V	70	140	-
R7MF2P.	AFQm-3WP-100C-480	3 fils, 230...480 V	100	200	-
R7JF7P.	AFQm-3WP-140C-690	3 fils, 400...690 V	140	280	-
<b>3 wires 480 V, Floor-mounted cabinet</b>					
R7MF2F.	AFQm-3WF-100C-480	3 fils, 230...480 V	100	200	-
R7MF3P.	AFQm-3WP-200C-480	3 fils, 230...480 V	200	400	-
R7MF3F.	AFQm-3WF-200C-480	3 fils, 230...480 V	200	400	-
R7JF8P.	AFQm-3WP-210C-690	3 fils, 400...690 V	210	420	-
R7MF4F.	AFQm-3WF-300C-480	3 fils, 230...480 V	300	600	-
R7JF9P.	AFQm-3WP-280C-690	3 fils, 400...690 V	280	560	-
R7MF5F.	AFQm-3WF-400C-480	3 fils, 230...480 V	400	800	-
R7MF4P.	AFQm-3WP-300C-480	3 fils, 230...480 V	300	600	-
<b>3 wires 690 V, Floor-mounted cabinet</b>					
R7JF6F.	AFQm-3WF-070C-690	3 fils, 400...690 V	70	140	-



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Code: R7MF3F.

CODI	TIPUS	Sistema de mesura	Corrent de fase (A)	Corrent de cresta (A)	Corrent màx. neutre (A)
R7MF5P.	AFQm-3WF-400C-480	3 fils, 230...480 V	400	800	-
R7JF7F.	AFQm-3WF-140C-690	3 fils, 400...690 V	140	280	
R7NF6P.	AFQm-4WP-070C-550	4 fils, 400...550 V	70	140	210
R7JF8F.	AFQm-3WF-210C-690	3 fils, 400...690 V	210	420	
R7RF2P.	AFQm-4WP-100C-400	4 fils, 230...400 V	100	200	300
R7JF9F.	AFQm-3WF-280C-690	3 fils, 400...690 V	280	560	
R7NF7P.	AFQm-4WP-140C-550	4 fils, 400...550 V	140	280	420
R7RF3P.	AFQm-4WP-200C-400	4 fils, 230...400 V	200	400	600
R7RF4P.	AFQm-4WP-300C-400	4 fils, 230...400 V	300	600	900
<b>4 wires 400 V, Floor-mounted cabinet</b>					
R7RF2F.	AFQm-4WF-100C-400	4 fils, 230...400 V	100	200	300
R7RF5P.	AFQm-4WP-400C-400	4 fils, 230...400 V	400	800	1200
R7RF3F.	AFQm-4WF-200C-400	4 fils, 230...400 V	200	400	600
R7RF4F.	AFQm-4WF-300C-400	4 fils, 230...400 V	300	600	900
R7RF5F.	AFQm-4WF-400C-400	4 fils, 230...400 V	400	800	1200
<b>4 wires 550 V, Floor-mounted cabinet</b>					
R7NF6F.	AFQm-4WF-070C-550	4 fils, 400...550 V	70	140	210
R7NF7F.	AFQm-4WF-140C-550	4 fils, 400...550 V	140	280	420
R7NF8F.	AFQm-4WF-210C-550	4 fils, 400...550 V	210	420	630
R7NF9F.	AFQm-4WF-280C-550	4 fils, 400...550 V	280	560	840

Please contact our technical department for networks with high THD(V) levels.

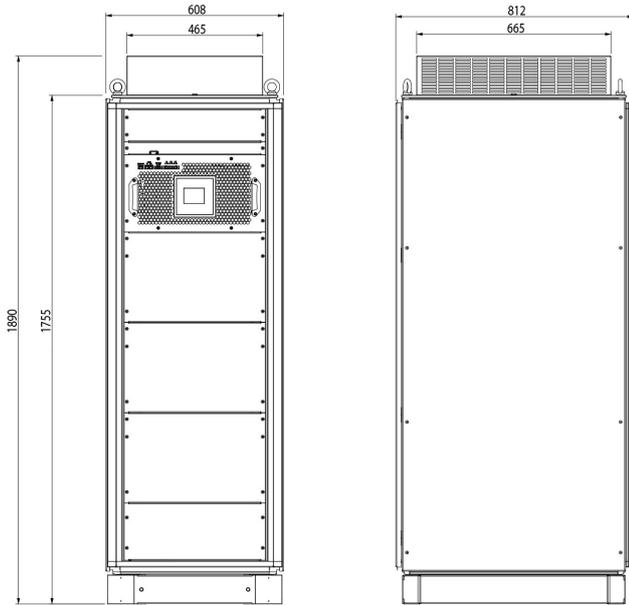
**All equipment has built-in EMI filters**



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## Dimensions



## Conexions

