



AFQm-3WF-070R-690

AFQm-3WF-070R-690, Filtre actiu multifunció

Code: R7JR6F.

- > Sistema de mesura: 3 fils, 400...690 V
- > Corrent de fase (A): 70
- > Corrent de cresta (A): 140
- > Fixació: Rack

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, capacity per cabinet between 100 A to 400 A
- Cabinets expandable with small-sized rack modules
- Range for installations with 3 wires (3W model) or 4 wires (4W model)
- 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'armònics 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
Frequency	50 / 60 Hz ($\pm 5\%$)
Nominal voltage	208 ... 690 V~ F-F ($\pm 10\%$)

Mechanical characteristics

Size (mm) width x height x depth	482.5 x 266 x 714.5 (mm)
Noise	< 70 dBA
Connection type	Network: M8 ring terminal, Ground: M10 ring terminal, Current: 6-pole connector, RS-485: 3-pole connector, Ethernet: RJ-45
Weight (kg)	55

Environmental characteristics

Protection class	IP 20
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	70 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)
Standards	IEC 61000-6-4, UNE-EN 55011, IEC 61000-6-2, IEC 62477-1, IEC 61439-1



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User interface

Display type	TFT color, tàtil de 3,5"
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Measurement accuracy

Voltage harmonics (THD)	25 % (màx.)
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Features / performance

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

Power supply output

Power	83650 VA
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Comunicació sèrie

Protocol	Modbus/RTU
Tecnologia / Tipus	RS-485

AFQm-R

Filtre actiu multinivell

CODI	TIPUS	Sistema de mesura	Corrent de fase (A)	Corrent de cresta (A)	Corrent màx. neutre (A)
R7RR2P.	AFQm-4WP-100R-400	4 fils, 230...400 V	100	200	300
Rack module					
R7JR6F.	AFQm-3WF-070R-690	3 fils, 400...690 V	70	140	
R7NR6F.	AFQm-4WF-070R-550	4 fils, 400...550 V	70	140	210
R7MR2F.	AFQm-3WF-100R-480	3 fils, 230...480 V	100	200	
R7RR2F.	AFQm-4WF-100R-400	4 fils, 230...400 V	100	200	300

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

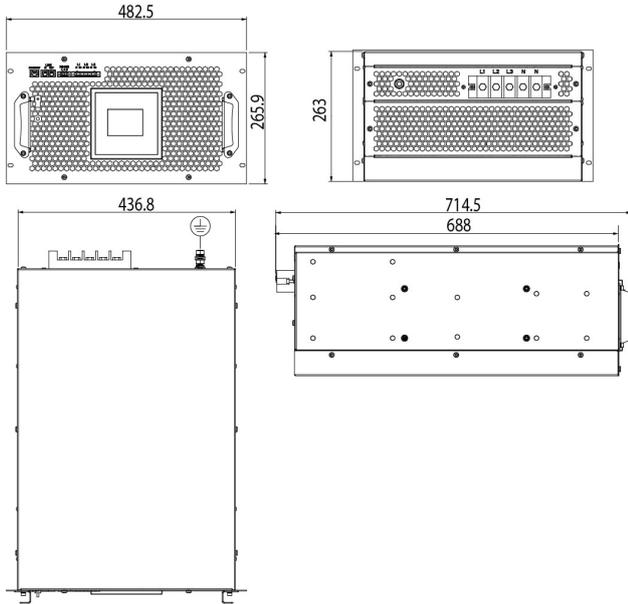
All equipment has built-in EMI filters



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Dimensions



Conexions

