



AFQm-3WF-030M-480

AFQm-3WF-030M-480, Active multifunctionfilter, 3 wires

Code: R7MM0F. CONSULTAR DISPONIBILIDAD

> System: 3 wires, 230...480 V > Phase current (A): 30 > Peak current (A): 60 > Mounting: Wall-mounted

Description

The wall-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:

- $\circ~$ Filtering capacity of 30 A, 60 A and 100 A
- o Small wall-mounted cabinet easy to install thanks to its small dimensions
- o Range for installations with 3 wires (3W model) or 4 wires (4W model)
- o Multi-range voltage and dual frequency (50/60 Hz)
- Reduction of harmonic currents up to the fiftieth harmonic (2,500 Hz)
- o Selection of harmonic frequencies to be filtered for maximum filter effectiveness
- o Power factor correction both inductive and capacitive
- Phase current balancing, improvement of consumption in neutral (4W model)

If higher filtering capabilities are required, up to 100 filters can be connected in parallel (the filters must all be of the same 3 or 4-wire model).

Application

They are an ideal solution for installations with a large amount of single-phase and three-phase loads generating harmonics, such as computers, UPS units, lights, lifting equipment, air-conditioning systems with variable speed drives, etc.

They can also be used in installations that require a good power quality for the purpose of increasing production efficiency and improve supply continuity in the system.







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Specifications

Size (mm) width x height x depth	AC power supply	
Nominal voltage 208 48(0 V = F+ (± 10 %) Nominal voltage 248 48(0 V = F+ (± 10 %) Nominal voltage 248 48(0 V = F+ (± 10 %) Nominal voltage 248 48(0 V = F+ (± 10 %) Nominal voltage 248 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nominal voltage 249 48(0 V = F+ (± 10 %) Nomi	Consumption	650 W
	Frequency	50 / 60 Hz (± 5 %)
Size (mm) width x height x depth	Nominal voltage	208 480 V~ F-F (± 10 %)
Envelope Connection type Connection type Network / Ground: M6 terminals, Current: 6-pole connector, R5-485: 3-pole connector, Ethernet: R1-45 Weight (kg) 11 nvironmental characteristics Protection class Storage temperature Protection class	Mechanical characteristics	
Network / Ground: M6 terminals, Current: 6-pole connector, R5-485: 3-pole connector, Ethernet: RJ-45 Weight (kg) 11 Protection class IP 20 Relative humidity (without condensation) 0 95 % Storage temperature -20 +50 °C Working temperature -10 +45 °C Verrent crest factor 2.1 Maximum phase current and system TN, TT verent measurement circuit Transformation ratio 5 5000 / 5A communication Network Protocol TCP/IP, Modbus TCP Technology / Type Ethernet Electrical safety, Maximum height (m) 3000 (2000 m without performance degradation) Standards IEC 62477-12012, IEC 55011:2011, IEC 61000-6-4, IEC 61000-6-4, 2007, IEC 61439-12011 Sterindectors. Display type TFT color, 3.5" touchscreen	Size (mm) width x height x depth	430 x 530 x 178 (mm)
Connector, Ethernet: RJ-45 Weight (kg)	Envelope	Galvanized steel 1,5 mm
Protection class Protection class Relative humidity (without condensation) \$0 95 % \$0 95 % Vorking temperature \$0 95 % Vorkin	Connection type	
Protection class IP 20 Relative humidity (without condensation) 0 95 % Storage temperature -20 +50 °C Working temperature -10 +45 °C Verking temperature 2.1 Maximum phase current 30 A (RMS) Earthing system Trivitation ratio 5 5000 / 5A wmunication Network Trechnology / Type Ethernet Electrical safety, Maximum height (m) 3000 (2000 m without performance degradation) Standards Electrical safety, Maximum height (m) 3000 (2000 m without performance degradation) Standards Fro inherface Display type Tricolor, 3.5° touchscreen	Weight (kg)	11
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lectrical characteristics Current crest factor 2:1 Maximum phase current 30 A (RMS) Earthing system TN, TT urrent measurement circuit Transformation ratio 5 5000 / 5A ommunication Network Protocol TCP/IP, Modbus TCP Technology / Type Ethernet Electrical safety, Maximum height (m) 3000 (2000 m without performance degradation) Standards Electrical safety, Maximum height (m) 1EC 62477-1:2012, IEC 55011:2011, IEC 61000-6-4:2007,IEC 61439-1:2011 Seer interface Display type TFT color, 3.5" touchscreen	Storage temperature	-20 +50 °C
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Maximum phase current 30 A (RMS) Earthing system TN, TT current measurement circuit Transformation ratio 5 5000 / 5A communication Network Protocol TCP/IP, Modbus TCP Technology / Type Ethernet Electrical safety, Maximum height (m) 3000 (2000 m without performance degradation) Standards Electrical safety, Maximum height (m) 1EC 62477-1:2012, IEC 55011:2011, IEC 61000-6-2, IEC 61000-6-4:2007, IEC 61439-1:2011 Seer interface Display type TFT color, 3.5" touchscreen	lectrical characteristics	
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EC 62477-1:2012, IEC 55011:2011, IEC 61000-6-2, IEC 61000-6-4:2007, IEC 61439-1:2011	tandards	
deasurement accuracy 61439-1:2011 For interface TFT color, 3.5" touchscreen	Electrical safety, Maximum height (m)	3000 (2000 m without performance degradation)
Display type TFT color, 3.5" touchscreen Measurement accuracy	Standards	
fleasurement accuracy	lser interface	
·	Display type	TFT color, 3.5" touchscreen
Voltage harmonics (THD) 25 % (max)	Measurement accuracy	
	Voltage harmonics (THD)	25 % (max)



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AFQm-3WF-030M-480

Active multifunction filter

Code: R7MM0F.

Features / performance

Phase compensation	Selectable
Reactive power compensation (Kvar)	selectable
Filtering / Response time	2° 50° harmonic (selectable) / < 100 μs
Parallel assembly/installation	Up to 100 units, with different gauges. Transformer connection only to the Master unit
Priority scheduling	selectable

Power supply output

Power	22906 VA

Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

AFQm-M

Active multifunction filter

CODE	TYPE	System	Phase current (A)	Peak current (A)	Max.neutral current (A)
3 wires 480 \	/, Wall-mounted cabinet				
R7MMAF.	AFQm-3WF-075M-480	3 wires, 230480 V	75	150	
R7MM2F.	AFQm-3WF-100M-480	3 wires, 230480 V	100	200	
4 wires 400 \	/, Wall-mounted cabinet				
R7RM0F.	AFQm -4WF-030M-400	4 wires, 230400 V	30	60	90
R7RMAF.	AFQm -4WF-075M-400	4 wires, 230400 V	75	150	225
R7RM2F.	AFQm-4WF-100M-400	4 wires, 230400 V	100	200	300

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

All equipment has built-in EMI filters







AFQm-3WF-030M-480

Active multifunction filter

Code: R7MM0F.

Dimensions Connections









