



AFQs-3WF-030M

AFQs-3WF-030M, Active multifunctionfilter, 3 wires

Code: R7MS0F.

- > System: 3 wires, 208...480 V
- > Phase current (A): 30
- > Peak current (A): 60
- > Mounting: Wall-mounted

Description

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The new range of **AFQs** active filters is the most complete and compact solution to solve quality problems caused by harmonics in variable-speed drives and small-to-medium-power non-linear loads. Like other ranges, it can also be used in installations where a filter with these characteristics is required.

The implemented characteristics and functions are as follows:

- Tougher and more efficient in a smaller size.
- Easy to install due to its dimensions. It can be installed on the wall or inside cabinets next to variable-speed drives.
- Reduces harmonic currents up to the 50th-order harmonic.
- Selectable harmonic frequencies to achieve the maximum filtering efficiency.
- Nominal filtering capacity for currents of 30 A.

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Application

Ideal solution for installation in electrical panels that contain variable-speed drives or other low-to-medium-power non-linear loads. Designed to filter harmonics directly at the machine or in installations that require a filter with these characteristics. Machine to machine compensation.



AFQs-3WF-030M

Active multifunction filter

Code: R7MSOF.

Specifications

AC power supply

Frequency	50 / 60 Hz ($\pm 5\%$)
Nominal voltage	208 ... 480 V~ F-F ($\pm 10\%$)

Mechanical characteristics

Size (mm) width x height x depth	205 x 490 x 201 (mm)
Envelope	Galvanized steel 1,5 mm
Noise	LAT: 63 dB - LCpeak: 95 dB
Connection type	Network / Ground: M6 terminals, Current: 6-pole connector, Ethernet: RJ-45
Weight (kg)	13

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	0 ... 95 %
Storage temperature	-20 ... +50 °C
Working temperature	-10 ... +45 °C

Electrical characteristics

Current crest factor	2:1
Maximum phase current	30 A (RMS)
Earthing system	TN, TT

Current measurement circuit

Transformation ratio	5/5A ... 20000 / 5A
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Communication Network

Protocol	TCP/IP, Modbus TCP
Technology / Type	Ethernet

Standards

Electrical safety, Maximum height (m)	3000 (ver guía / see guide)
Electrical safety, Contamination level/class	2
Standards	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, UNE-EN 60068-2-1, UNE-EN 60068-2-2, UNE-EN 60068-2-78, UNE-EN 60068-2-64, UNE-EN 60068-2-6

User interface

Display type	TFT color, 4.3" touchscreen
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Measurement accuracy



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Voltage harmonics (THD) 25 % (max)

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

Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

AFQs

Active multifunction filter

CODE	TYPE	System	Phase current (A)	Peak current (A)	Max. neutral current (A)
3 wires 480 V, Wall-mounted cabinet					
R7MSOF.	AFQs-3WF-030M	3 wires, 208...480 V	30	60	-

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

All equipment has built-in EMI filters



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Dimensions

