



AFQm-3WF-100R-480

AFQm-3WF-100R-480, Active multifunctionfilter, 3 wires

Code: R7MR2F.

- > System: 3 wires, 230...480 V
- > Phase current (A): 100
- > Peak current (A): 200
- > Mounting: Rack

Specifications

AC power supply

Installation category	4 kV, CAT III Class 1
Consumption	2070 W
Frequency	50 / 60 Hz (± 5 %)
Nominal voltage	208 ... 480 V~ F-F (± 10 %)

Mechanical characteristics

Size (mm) width x height x depth	482.5 x 266 x 714.5 (mm)
Envelope	Galvanized steel 1,5 mm
Noise	< 60 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
Working temperature	-10 ... +45 °C

Electrical characteristics

Current crest factor	2:1
Maximum phase current	100 A (RMS)
Rated diversity factor (RDF), simultaneity	1
Earthing system	TN, TT

Current measurement circuit

Transformation ratio	5 ... 5000 / 5A
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Communications

Fieldbus (ModBus)	RS-485
Protocol	Modbus RTU / Ethernet: TCP/IP, Modbus TCP
Speed	9600

Standards



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Electrical safety, Maximum height (m)	3000 (2000 m without performance degradation)
Standards	IEC 62477-1:2012, IEC 55011:2011, IEC 61000-6-2, IEC 61000-6-4:2007,IEC 61439-1:2011

User interface

Display type	TFT color, 3.5" touchscreen
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Measurement accuracy

Voltage harmonics (THD)	25 % (max)
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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	76300 VA
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AFQm

CODE	TYPE	System	Phase current (A)	Peak current (A)	Max.neutral current (A)
3 wires 480 V, Wall-mounted cabinet					
R7MM0F.	AFQm-3WF-030M-480	3 wires, 230...480 V	30	60	
R7MMAF.	AFQm-3WF-075M-480	3 wires, 230...480 V	75	150	
R7MM2F.	AFQm-3WF-100M-480	3 wires, 230...480 V	100	200	
4 wires 400 V, Wall-mounted cabinet					
R7RM0F.	AFQm -4WF-030M-400	4 wires, 230...400 V	30	60	90
R7RMAF.	AFQm -4WF-075M-400	4 wires, 230...400 V	75	150	225
R7RM2F.	AFQm-4WF-100M-400	4 wires, 230...400 V	100	200	300
3 wires 480 V, Floor-mounted cabinet					
R7MF2F.	AFQm-3WF-100C-480	3 wires, 230...480 V	100	200	
R7MF3F.	AFQm-3WF-200C-480	3 wires, 230...480 V	200	400	
R7MF4F.	AFQm-3WF-300C-480	3 wires, 230...480 V	300	600	
R7MF5F.	AFQm-3WF-400C-480	3 wires, 230...480 V	400	800	
3 wires 690 V, Floor-mounted cabinet					
R7JF6F.	AFQm-3WF-070C-690	3 wires, 400...690 V	70	140	
R7JF7F.	AFQm-3WF-140C-690	3 wires, 400...690 V	140	280	
R7JF8F.	AFQm-3WF-210C-690	3 wires, 400...690 V	210	420	



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CODE	TYPE	System	Phase current (A)	Peak current (A)	Max.neutral current (A)
R7JF9F.	AFQm-3WF-280C-690	3 wires, 400...690 V	280	560	
4 wires 400 V, Floor-mounted cabinet					
R7RF2F.	AFQm-4WF-100C-400	4 wires, 230...400 V	100	200	300
R7RF3F.	AFQm-4WF-200C-400	4 wires, 230...400 V	200	400	600
R7RF4F.	AFQm-4WF-300C-400	4 wires, 230...400 V	300	600	900
R7RF5F.	AFQm-4WF-400C-400	4 wires, 230...400 V	400	800	1200
4 wires 550 V, Floor-mounted cabinet					
R7NF6F.	AFQm-4WF-070C-550	4 wires, 400...550 V	70	140	210
R7NF7F.	AFQm-4WF-140C-550	4 wires, 400...550 V	140	280	420
R7NF8F.	AFQm-4WF-210C-550	4 wires, 400...550 V	210	420	630
R7NF9F.	AFQm-4WF-280C-550	4 wires, 400...550 V	280	560	840
Rack module					
R7JR6F.	AFQm-3WF-070R-690	3 wires, 400...690 V	70	140	
R7NR6F.	AFQm-4WF-070R-550	4 wires, 400...550 V	70	140	210
R7MR2F.	AFQm-3WF-100R-480	3 wires, 230...480 V	100	200	
R7RR2F.	AFQm-4WF-100R-400	4 wires, 230...400 V	100	200	300



Dimensions

