



AFQm-4WF-280C-550

AFQm-4WF-280C-550, Active multifunctionfilter, 4 wires

Code: R7NF9F.

- > System: 4 wires, 400...550 V
- > Phase current (A): 280
- > Peak current (A): 560
- > Max.neutral current (A): 840
- > Mounting: Floor-mounted

Specifications

AC power supply

Installation category	4 kV, CAT III Class 1
Frequency	50 / 60 Hz (± 5 %)
Nominal voltage	208 ... 690 V~ F-F (± 10 %)

Mechanical characteristics

Size (mm) width x height x depth	608 x 1890 x 812 (mm)
Noise	< 79 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)	363

Environmental characteristics

Protection class	IP 21 (IP 41 on demand) / IK10
Relative humidity (without condensation)	0 ... 95 %
Storage temperature	-20 ... +50 °C
Working 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	280 A (RMS)
Maximum neutral current	840 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



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Standards

Electrical safety, Maximum height (m)	5000
Standards	IEC 61000-6-4, UNE-EN 55011, IEC 61000-6-2, IEC 62477-1, IEC 61439-1

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

Reactive power compensation (Kvar)	selectable
Filtering / Response time	2° ... 50° harmonic (selectable) / < 100 µs
Parallel assembly/installation	Up to 100 units, with different gauges. CTs connection only to the "master" unit Advanced management algorithm: Maximizes the life of the devices (alternate operation of devices). Maximises operational efficiency (Only the necessary filters are activated). Allows redundancy (system operation in the event of device malfunction).
Priority scheduling	selectable

Power supply output

Power	266800 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	



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CODE	TYPE	System	Phase current (A)	Peak current (A)	Max.neutral current (A)
R7JF8F.	AFQm-3WF-210C-690	3 wires, 400...690 V	210	420	
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



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Dimensions



Connections

