



AFQm-4WF-100C-400

AFQm-4WF-100C-400, Active multifunctionfilter, 4 wires

Code: R7RF2F.

- > System: 4 wires, 230...400 V
- > Phase current (A): 100
- > Peak current (A): 200
- > Max.neutral current (A): 300
- > Mounting: Floor-mounted

Specifications

AC power supply

Installation category	4 kV, CAT III Class 1
Consumption	2070 W
Frequency	50 / 60 Hz (± 5 %)
Nominal voltage	208 ... 400 V~ F-F (± 10 %)

Mechanical characteristics

Size (mm) width x height x depth	608 x 1890 x 812 (mm)
Envelope	Free-standing sheet steel cabinet, for installation indoors, without removable parts.
Connection type	Network: plate 30x3, Ground: Ring terminal 8 mm, Current: spring 2,5 mm2, Neutral: plate 50x10, Ethernet: RJ-45
Weight (kg)	190

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	100 A (RMS)
Maximum neutral current	300 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



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Speed	9600
Standards	
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
Measurement accuracy	
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
Power supply output	
Power	69000 VA

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					



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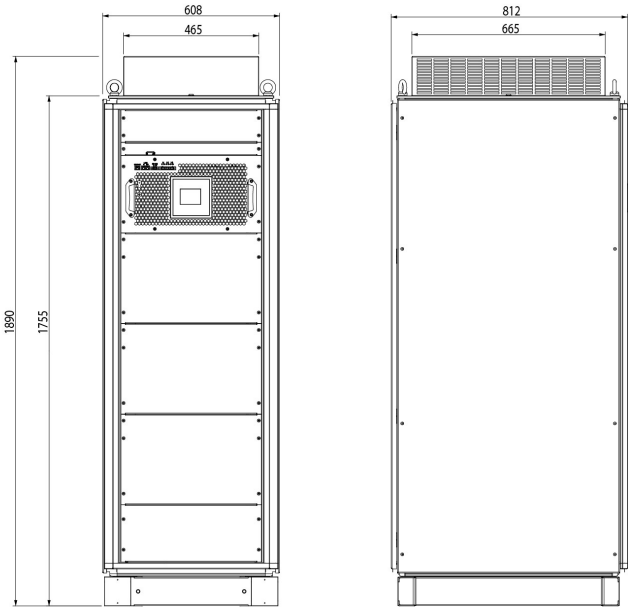
CODE	TYPE	System	Phase current (A)	Peak current (A)	Max.neutral current (A)
R7JF6F.	AFQm-3WF-070C-690	3 wires, 400...690 V	70	140	
R7JF7F.	AFQm-3WF-140C-690	3 wires, 400...690 V	140	280	
R7JF8F.	AFQm-3WF-210C-690	3 wires, 400...690 V	210	420	
R7JF9F.	AFQm-3WF-280C-690	3 wires, 400...690 V	280	560	
4 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

