

5 / 10 In

4,5 kA

6 kA

6 kA



AFC840F

RCBO 1P+N 4.5kA C-40A 300mA AC

Product Datasheet

Architecture

Neutral position	left
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	C

operation

Magnetic regulating currrent

230V AC according IEC60898-1

under 230V AC IEC 60947-2

under 240V AC IEC 60947-2

Rated short circuit breaking capacity Icn under

Rated ultimate short-circuit breaking capacity Icu

Rated ultimate short-circuit breaking capacity Icu

Connectivity		
Top connection alignement for modular devices	Shifted terminal	
Main electrical features		
Rated short circuit breaking capacity Icn AC according IEC60898-1	4,5 kA	
Rated operational voltage Ue	240 V	
Frequency	50 Hz	
Voltage		
Rated insulation voltage	500 V	
Max operating voltage	240 V	
Rated impulse withstand voltage	4000 V	
Electric current		
Rated residual operating current	300 mA	
Rated current	40 A	
Withstand not tripping on 8-20 µs wave	250 A	
Breaking and opening capacity	4,5 kA	
min/maxi threshold value of the AC thermal	1,13 / 1,45 ln	



Electric current / temperature	
Rating current -25°C	46,9 A
Rating current -20°C	46,3 A
Rating current -15°C	45,6 A
Rating current -10°C	45 A
Rating current -5°C	44,4 A
Rating current 0°C	43,8 A
Rating current 5°C	43,1 A
Rating current 10°C	42,5 A
Rating current 15°C	41,9 A
Rating current 20°C	41,3 A
Rating current 25°C	40,6 A
Rating current 30°C	40 A
Rating current 35°C	39,4 A
Rating current 40°C	38,8 A
Rating current 45°C	38,2 A
Rating current 50°C	37,5 A
Rating current 55°C	36,9 A
Rating current 60°C	36,2 A
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0,95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0,9
Correction factor of rating current for 6 devices placed side-by-side	0,85
Frequency	
Frequency	50 Hz
Selectivity	
Maximal rating current of downstream aM fuse for selectivity on short-circuit	10 A
Maximal rating current of downstream gL fuse for selectivity on short-circuit	20 A
Minimal rating current of upstream aM fuse for selectivity on short-circuit	50 A
Minimal rating current of upstream gL fuse for selectivity on short-circuit	63 A
Power	
Total power loss under IN	10,9 W
Power loss per pole at In	6,4 W
Tripping	
Protected against nuisance tripping	no
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Endurance	
Electric endurance in number of cycles	2000
Number of mechanical operations	2000
Dimensions	
Depth of installed product	68 mm
Height of installed product	83 mm
Width of installed product	35 mm
Installation, mounting	
Tightening torque	2,1Nm
360° product mounting position	yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 16 mm ²
Connection cross-section at output with screw, for massive conductor	1 / 25 mm ²
Connection cross-sect. flexible conductor	1 / 16mm ²
Connection cross-sect. rigid cable	1 / 25mm
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm ⁻
Type of connection	with screw
Standards	
Standard text	EN 61009-1
European directive WEEE	not concerned
Safety	
Protection index IP	IP20
Residual current type	AC
Use conditions	
Operating temperature	-2540 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	•
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-2570 °C
temperatur	
Temperature of calibration	30 °C