



AFC416F

RCBO 3P+N 6/10kA C-16A 300mA AC

Product Datasheet

Architecture

Neutral position	left
Number of protected poles	3
Number of poles	4 P
Type of pole	3P+N
Curve	C

Functions

Concurrently switching N-neutral	yes
Sealable	yes

Main electrical features

Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	6 kA
Rated operational voltage U_e	230 / 400 V
Frequency	50 Hz

Voltage

Rated insulation voltage	500 V
Max operating voltage	440 V
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	300 mA
Rated current	16 A
Withstand not tripping on 8-20 μ s wave	3 kA
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 I_n
Magnetic regulating current	5 / 10 I_n
Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity I_{cn} under 400V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 400V AC IEC 60947-2	10 kA

Electric current / temperature

Rating current 20°C	16,7 A
Rating current 30°C	16 A
Rating current 35°C	15,8 A
Rating current 40°C	15,5 A
Rating current 45°C	15,2 A
Rating current 50°C	15 A
Rating current 55°C	14,7 A
Rating current 60°C	14,5 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	0,95
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
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Power

Total power loss under I_N	8,9 W
Power loss per pole at I_N	3 W

Tripping

Protected against nuisance tripping	no
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Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	6000

Dimensions

Depth of installed product	70 mm
Height of installed product	93,4 mm
Width of installed product	88,5 mm

Installation, mounting

Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	plastic
Top removability for modular devices	yes
Bottom removability for modular devices	yes
360° product mounting position	yes

Connection

Connection cross-sect. flexible conductor	1 / 10mm ²
Connection cross-sect. rigid cable	1 / 16mm ²

Equipment

With interlocking device	yes
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Standards

Standard text	EN 61009-1
Approvals	NF
European directive WEEE	concerned

Safety

Protection index IP	IP20
Residual current type	AC

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Air humidity protection	for all climates

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Temperature of calibration	30 °C
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