



ADC416F

**RCBO 3P+N 6/10kA C-16A 30mA 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	30 mA
Rated current	16 A
Withstand not tripping on 8-20 $\mu$ 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 <sub>N</sub>	8,8 W
Power loss per pole at I <sub>n</sub>	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 <sup>2</sup>
Connection cross-sect. rigid cable	1 / 16mm <sup>2</sup>

**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 <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates

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Temperature of calibration	30 °C
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