



ADC810F

RCBO 1P+N 4.5kA C-10A 30mA AC Class

Technical Features

Architecture

Type of pole	1P+N
Curve	C
Number of poles	2

Electric current

Rated current	10 A
Rated residual operating current I _{dn}	30 mA
Rated current -25°C	12 A
Rated current at -20°C	11.90 A
Rated current -15°C	11.70 A
Rated current -10°C	11.50 A
Rated current -5°C	11.30 A
Rated current at 0°C	11.20 A
Rated current 5°C	11 A
Rated current 10°C	10.80 A
Rated current 15°C	10.60 A
Rated current at 20°C	10.40 A
Rated current 25°C	10.20 A
Rated current 30°C	10 A
Rated current 35°C	9.90 A
Rated current at 40°C	9.70 A
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	0.90
Correction factor of rating current for 6 devices placed side by side	0.85
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A

Safety

Residual current type	AC
Ingress Protection (IP) class	IP20

Main electrical attributes

Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1	4.50 kA
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Connectivity

Type of connection	Screw terminal
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Voltage

Rated insulation voltage U _i	500 V
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Electric current

Rated service breaking capacity I _{cs} AC according to IEC 60898-1	4.50 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	4.50 kA

Voltage

Rated impulse withstand voltage U _{imp}	4000 V
Max. operating voltage	0 V
Rated operational voltage U _e	240 - 240 V
Overtoltage category according to IEC 60947-1	3
Type voltage supply	AC

Power

Total power loss under I _N	3.40 W
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Frequency

Frequency	50 - 50 Hz
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Use conditions

Max. Altitude	2000 m
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Installation, mounting

Nominal tightening torque down terminal	2.10 - 2.10 Nm
Nominal tightening torque top terminal	2.10 - 2.10 Nm

Use conditions

Class of energy limitation I ² t	3
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Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	2000

Connection

Cross-section flexible conductor	1.5 - 95 mm ²
Cross-section rigid conductor	1.5 - 95 mm ²
Cross-section of input with screws, for flexible conductors	1 - 16 mm ²
Cross-section of input with screws, for massive conductors	1 - 25 mm ²

Installation, mounting

Nominal tightening torque	10 - 10 Nm
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Capacity

Number of modules	2
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Installation, mounting

Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect

Dimensions

Height	0 mm
Width	0 mm
Depth	68 mm

Use conditions

Operating temperature	-25 - 40 °C
Storage/transport temperature	-25 - 70 °C

Connection

Cross-section of input and output with screws, for flexible conductors	1 - 16 mm ²
Cross-section of input and output with screws, for massive conductors	1 - 25 mm ²

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	For all climates

Sustainability

RoHS conform	Yes
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Illustrations | Drawings

