



AD185

**RCBO 1M 1P 10kA C-10A 30mA AC**

**Technical characteristics**

**Architecture**

Neutral position	right
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	C

**Functions**

Concurrently switching N-neutral	No
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**Configuration**

Number of modules	1
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**Main electrical features**

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	10 kA
Rated operational voltage $U_e$	230 / 240 V
Frequency	50/60 Hz

**Voltage**

Rated insulation voltage	250 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V

**Electric current**

Rated residual operating current	30 mA
Rated current	10 A
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	10 kA

**Electric current / temperature**

Rating current -25°C	13.38 A
Rating current -20°C	13.11 A
Rating current -15°C	12.84 A
Rating current -10°C	12.55 A
Rating current -5°C	12.26 A
Rating current 0°C	11.97 A

Rating current 5°C	11.66 A
Rating current 10°C	11.35 A
Rating current 15°C	11.03 A
Rating current 20°C	10.7 A
Rating current 25°C	10.35 A
Rating current 30°C	10 A
Rating current 35°C	9.63 A
Rating current 40°C	9.25 A
Rating current 45°C	8.86 A
Rating current 50°C	8.44 A
Rating current 55°C	8 A
Rating current 60°C	7.54 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

#### Dimensions

Depth of installed product	70 mm
Height of installed product	115 mm
Width of installed product	17.5 mm

#### Frequency

Frequency	50 to 60 Hz
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#### Power

Total power loss under IN	2.58 W
Power loss per pole at In	1.87 W

#### Tripping

Protected against nuisance tripping	No
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#### Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	1000

#### Installation, mounting

Tightening torque	2,1Nm
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#### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 25 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm <sup>2</sup>

Connection cross-section of the access with  
screws, with flexible conductor

1 / 16 mm<sup>2</sup>

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**Standards**

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Standard text IEC 61009-1 ; EN 61009-1

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**Safety**

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Protection index IP IP20

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Residual current type AC

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**Use conditions**

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Degree of pollution according to IEC 60664 /  
IEC 60947-2 2

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Class of energy limitation I<sup>2</sup>t 3

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Altitude 2000 m

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Air humidity protection Execution II