

## RCBO 1P 6kA C-10A 300mA type AC

### Architecture

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

### Main electrical features

Frequency	50/60 Hz
Rated short circuit breaking capacity I <sub>cn</sub> AC according IEC60898-1	
Rated operational voltage U <sub>e</sub>	230/240 V

### Voltage

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

### Electric current

Rated residual operating current	300 mA
Rated short circuit breaking capacity I <sub>cn</sub> under 230V AC according IEC60898-1	6 kA
Breaking and opening capacity	6 kA
Magnetic regulating current at 40° C	5/10 I <sub>n</sub>
min/maxi threshold value of the AC thermal operation	1,13/1,45 I <sub>n</sub>

### Electric current / temperature

Rating current -15°C	12,84 A
Rating current -20°C	13,11 A
Rating current 0°C	11,97 A
Rating current 10°C	11,35 A
Rating current -10°C	12,55 A
Rating current 15°C	11,03 A
Rating current 20°C	10,7 A
Rating current 25°C	10,35 A
Rating current -25°C	13,38 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 5°C	11,66 A
Rating current -5°C	12,26 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 1 side-by-side	
Correction factor of rating current for 3 devices placed 0,95 side-by-side	

#### Technical Properties

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

#### Power

Power loss per pole at In	1,87 W
Total power loss under IN	2,58 W

#### Tripping

Protected against nuisance tripping	no
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#### Endurance

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

#### Dimensions

Depth of installed product	70 mm
Height of installed product	115 mm
Width of installed product	17,5 mm

#### 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 of the access with screws, with 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>

#### Standards

Standard text	IEC 61009-1, EN 61009-1
European directive WEEE	not 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	Execution II