

RCBO 1P 6kA C-40A 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 _{cn} AC according IEC60898-1	6 kA
Rated operational voltage U _e	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 _{cn} under 230V AC according IEC60898-1	6 kA
Breaking and opening capacity	6 kA
Magnetic regulating current at 40° C	5/10 I _n
min/maxi threshold value of the AC thermal operation	1,13/1,45 I _n

Electric current / temperature

Rating current -15°C	49,23 A
Rating current -20°C	50,25 A
Rating current 0°C	46,15 A
Rating current 10°C	44,1 A
Rating current -10°C	48,2 A
Rating current 15°C	43,08 A
Rating current 20°C	42,05 A
Rating current 25°C	41,03 A
Rating current -25°C	51,28 A
Rating current 30°C	40 A
Rating current 35°C	39,1 A
Rating current 40°C	38,2 A
Rating current 45°C	37,3 A
Rating current 5°C	45,13 A
Rating current -5°C	47,18 A
Rating current 50°C	36,4 A
Rating current 55°C	35,5 A
Rating current 60°C	34,6 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	6,72 W
Total power loss under IN	12,96 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 ²
Connection cross-section of the access with screws, with flexible conductor	1/16 mm ²
Connection cross-section at output with screw, for massive conductor	1/25 mm ²
Connection cross-section for rigid conductor, upstream terminals with screws	1/25 mm ²

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 ² t	3
Altitude	2000 m
Air humidity protection	Execution II