



AEC116

RCBO Electronic 1M 1P 10kA C-16A 100mA AC Class

Technical characteristics

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Fixing mode	Din-Rail
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	100 mA
Rated current	16 A
Withstand not tripping on 8-20 μ 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	10 kA

Electric current / temperature

Rating current -25°C	22.23 A
Rating current -20°C	21.74 A
Rating current -15°C	21.23 A
Rating current -10°C	20.72 A

Rating current -5°C	20.19 A
Rating current 0°C	19.64 A
Rating current 5°C	19.08 A
Rating current 10°C	18.51 A
Rating current 15°C	17.91 A
Rating current 20°C	17.3 A
Rating current 25°C	16.66 A
Rating current 30°C	16 A
Rating current 35°C	15.38 A
Rating current 40°C	14.75 A
Rating current 45°C	14.13 A
Rating current 50°C	13.5 A
Rating current 55°C	12.88 A
Rating current 60°C	12.25 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	110 mm
Width of installed product	17.8 mm

Frequency

Frequency	50 to 60 Hz
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Power

Total power loss under IN	4.74 W
Power loss per pole at In	2.88 W

Tripping

Protected against nuisance tripping	No
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Endurance

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

Installation, mounting

Tightening torque	2,1Nm
Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	metallic isolated
Top removability for modular devices	No
Bottom removability for modular devices	No

Connection

Connection cross-section at output with screw, for 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
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm ²

Equipment

With transparent product label holder	No
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Standards

Standard text	IEC 61009-1
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Safety

Protection index IP	IP20
Residual current type	AC
REACH conform	No
RoHS conform	Yes
Halogen free	No

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