



AE116Z

## RCBO electronic 1P 6kA C-16A 100mA type 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	6 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
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	6 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	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	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	1000

#### Installation, mounting

Tightening torque	2,1Nm
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#### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm²
Connection cross-section at output with screw, for massive conductor	1 / 25 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm²

Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm²
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**Standards**

Standard text	IEC 61009-1 ; EN 61009-1
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**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 I²t	3
Altitude	2000 m
Air humidity protection	Execution II