



AE120Z

RCBO electronic 1P 6kA C-20A 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	20 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	25.78 A
Rating current -20°C	25.25 A
Rating current -15°C	24.73 A
Rating current -10°C	24.2 A
Rating current -5°C	23.68 A
Rating current 0°C	23.15 A

Rating current 5°C	22.63 A
Rating current 10°C	22.1 A
Rating current 15°C	21.58 A
Rating current 20°C	21.05 A
Rating current 25°C	20.53 A
Rating current 30°C	20 A
Rating current 35°C	19.6 A
Rating current 40°C	19.2 A
Rating current 45°C	18.8 A
Rating current 50°C	18.4 A
Rating current 55°C	18 A
Rating current 60°C	17.6 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	5.76 W
Power loss per pole at In	2.98 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