



AD120B

**RCBO Electronic 1M 1P 10kA C-20A 30mA A Class**

**Technical Features**

**Architecture**

Type of pole	1P
Curve	C

**Electric current**

Rated current	20 A
Rated residual operating current Idn	30 mA
Rated current -25°C	25.78 A
Rated current at -20°C	25.25 A
Rated current -15°C	24.73 A
Rated current -10°C	24.20 A
Rated current -5°C	23.68 A
Rated current at 0°C	23.15 A
Rated current 5°C	22.63 A
Rated current 10°C	22.10 A
Rated current 15°C	21.58 A
Rated current at 20°C	21.05 A
Rated current 25°C	20.53 A
Rated current 30°C	20 A
Rated current 35°C	19.60 A
Rated current at 40°C	19.20 A
Rated current at 50°C	18.40 A
Rated current 55°C	18 A
Rated current 60°C	17.60 A
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	0.90
Correction factor of rating current for 6 devices placed side by side	0.85
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A

**Safety**

Residual current type	A
Ingress Protection (IP) class	IP20

**Main electrical attributes**

Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA
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**Voltage**

Rated insulation voltage Ui	250 V
Rated impulse withstand voltage Uimp	4000 V
Max. operating voltage	253 V
Rated operational voltage Ue	230 - 240 V
Overvoltage category according to IEC 60947-1	3

**Power**

Total power loss under IN	5.76 W
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**Frequency**

Frequency	50 - 50 Hz
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**Use conditions**

Max. Altitude	2000 m
Class of energy limitation I <sup>2</sup> t	3

**Endurance**

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

**Connection**

Cross-section of input with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Installation, mounting**

Nominal tightening torque	2.10 - 2.10 Nm
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**Capacity**

Number of modules	1
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**Dimensions**

Height	115 mm
Width	17.50 mm
Depth	70 mm

**Use conditions**

Operating temperature	-5 - 60 °C
Storage/transport temperature	-25 - 60 °C

**Connection**

Cross-section of input and output with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of input and output with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Sustainability**

RoHS conform	Yes
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