



ADC420U

### RCBO 1M 1P 10kA C-20A 30mA Type A

#### Technical Features

##### Architecture

Type of pole	1P
Curve	C

##### Electric current

Rated current	20 A
Rated residual operating current $I_{dn}$	30 mA
Rated current -25°C	25.09 A
Rated current at -20°C	24.63 A
Rated current -15°C	24.16 A
Rated current -10°C	23.70 A
Rated current -5°C	23.24 A
Rated current at 0°C	22.78 A
Rated current 5°C	22.31 A
Rated current 10°C	21.85 A
Rated current 15°C	21.39 A
Rated current at 20°C	20.93 A
Rated current 25°C	20.46 A
Rated current 30°C	20 A
Rated current 35°C	19.53 A
Rated current at 40°C	19.05 A
Rated current at 50°C	18.10 A
Rated current 55°C	17.63 A
Rated current 60°C	17.15 A
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 $I_{cn}$ AC according to IEC 60898-1	10 kA
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##### Voltage

Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	4000 V
Rated operational voltage $U_e$	230 - 240 V
Overvoltage category according to IEC 60947-1	3

##### Power

Total power loss under $I_N$	6.50 W
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##### Frequency

Frequency	50 - 60 Hz
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##### Use conditions

Max. Altitude	2000 m
Class of energy limitation $I^2t$	3

##### Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	10000

##### Connection

Cross-section of input with screws, for flexible conductors	1 - 10 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 16 mm <sup>2</sup>

##### Capacity

Number of modules	1
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**Installation, mounting**

Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect

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**Dimensions**

Height	115 mm
Width	17.80 mm
Depth	70 mm

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**Use conditions**

Operating temperature	-25 - 40 °C
Storage/transport temperature	-40 - 70 °C

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**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>

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**Compatibility**

Suitable for DIN Rail	Yes
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**Sustainability**

RoHS conform	Yes
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