



ADC445U

**RCBO 1M 1P 10kA C-45A 30mA Type A**

**Technical Features**

**Architecture**

Type of pole	1P
Curve	C

**Electric current**

Rated current	45 A
Rated residual operating current I <sub>dn</sub>	30 mA
Rated current -25°C	55.45 A
Rated current at -20°C	54.50 A
Rated current -15°C	53.55 A
Rated current -10°C	52.60 A
Rated current -5°C	51.65 A
Rated current at 0°C	50.70 A
Rated current 5°C	49.75 A
Rated current 10°C	48.80 A
Rated current 15°C	47.85 A
Rated current at 20°C	46.90 A
Rated current 25°C	45.95 A
Rated current 30°C	45 A
Rated current 35°C	44.50 A
Rated current at 40°C	44 A
Rated current at 50°C	43 A
Rated current 55°C	42.50 A
Rated current 60°C	42 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 <sub>cn</sub> AC according to IEC 60898-1	10 kA
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**Voltage**

Rated insulation voltage U <sub>i</sub>	250 V
Rated impulse withstand voltage U <sub>imp</sub>	4000 V
Rated operational voltage U <sub>e</sub>	230 - 240 V
Overvoltage category according to IEC 60947-1	3

**Power**

Total power loss under I <sub>N</sub>	12.90 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 <sup>2</sup> t	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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