



ADB445U

## RCBO 1M 1P 10kA B-45A 30mA Type A

### Technical characteristics

#### Architecture

Type of pole	1P
Curve	B

#### Electric current

Rated current	45 A
Rated residual operating current $I_{dn}$	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 $I_{cn}$ AC according to IEC 60898-1	10 kA
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#### Voltage

Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	4,000 V
Rated operational voltage $U_e$	230 - 240 V

Overvoltage category according to IEC 60947-1	3
<b>Power</b>	
Total power loss under IN	12.90 W
<b>Frequency</b>	
Frequency	50 - 60 Hz
<b>Use conditions</b>	
Max. Altitude	2,000 m
Class of energy limitation I <sup>2</sup> t	3
Operating temperature	-25 - 40 °C
Storage/transport temperature	-40 - 70 °C
<b>Endurance</b>	
Electric endurance in number of cycles	2,000
Number of mechanical operations	10,000
<b>Connection</b>	
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>
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>
<b>Installation, mounting</b>	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
<b>Capacity</b>	
Number of modules	1
<b>Dimensions</b>	
Height	115 mm
Width	17.80 mm
Depth	70 mm
<b>Compatibility</b>	
Suitable for DIN Rail	Yes