



ADC445U

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

Technical characteristics

Architecture

Type of pole	1P
Curve	C

Electric current

Rated current	45 A
Rated residual operating current $I_{\Delta n}$	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
Power	
Total power loss under IN	12.90 W
Frequency	
Frequency	50 - 60 Hz
Use conditions	
Max. Altitude	2,000 m
Class of energy limitation I ² t	3
Operating temperature	-25 - 40 °C
Storage/transport temperature	-40 - 70 °C
Endurance	
Electric endurance in number of cycles	2,000
Number of mechanical operations	10,000
Connection	
Cross-section of input with screws, for flexible conductors	1 - 10 mm ²
Cross-section of input with screws, for massive conductors	1 - 16 mm ²
Cross-section of input and output with screws, for flexible conductors	1 - 16 mm ²
Cross-section of input and output with screws, for massive conductors	1 - 25 mm ²
Installation, mounting	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
Capacity	
Number of modules	1
Dimensions	
Height	115 mm
Width	17.80 mm
Depth	70 mm
Compatibility	
Suitable for DIN Rail	Yes