Product Datasheet
ADC445U



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

Technical Features

Architecture	
Type of pole	1P
Number of protected poles	1
Curve	C
Electric current	
Rated current IN	45 A
Rated residual operating current Idn	30 mA
Rated current at -25°C	55.45 A
Rated current at -20°C	54.5 A
Rated current at -15°C	53.55 A
Rated current at -10°C	52.6 A
Rated current at -5°C	51.65 A
Rated current at 0°C	50.7 A
Rated current at 5°C	49.75 A
Rated current at 10°C	48.8 A
Rated current at 15°C	47.85 A
Rated current at 20°C	46.9 A
Rated current at 25°C	45.95 A
Rated current at 30°C	45 A
Rated current at 35°C	44.5 A
Rated current at 40°C	44 A
Rated current at 50°C	43 A
Rated current at 55°C	42.5 A
Rated current at 60°C	42 A
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A
Rated current at 45°C	43.5 A
Rated current at 65°C	41.5 A
Rated current at 70°C	41 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
Voltage	
Rated insulation voltage Ui	250 V
Rated impulse withstand voltage Uimp	4000 V
Rated operational voltage Ue	230 - 240 V
Overvoltage category according to IEC 60947-1	3
Power	
Power dissipation at IN	12.90 W
Frequency	
Frequency	50 - 60 Hz
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 top terminal with screws, for flexible conductors	1 - 10 mm^2

Connection	
Cross-section of top terminal with screws, for rigid conductors	1 - 16 mm²
Capacity	
Number of modules	1
Installation, mounting	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
Dimensions	
Height	115 mm
Width	17.80 mm
Depth	70 mm
Use conditions	
Operating temperature	-25 - 40 °C
Storage/transport temperature	-40 - 70 °C
Connection	
Cross-section of top and bottom terminal with screws, for flexible conductors	1 - 16 mm²
Cross-section of top and bottom terminal with screws, for rigid conductors	1 - 25 mm²
Cross-section of bottom terminal with screws, for flexible conductors	1 - 16 mm²
Cross-section of bottom terminal with screws, for rigid conductors	1 - 25 mm²
Compatibility	
Suitable for DIN Rail	Yes
Sustainability	
RoHS conform	Yes