ADA906U

RCBO 1P+N 6kA B-6A 30mA A Class

Technical characteristics

Architecture

Type of pole	1P+N
Curve	B

Electric current

Rated current	6 A
Rated residual operating current Idn	30 mA
Rated current -25°C	7.20 A
Rated current at -20°C	7.10 A
Rated current -15°C	7 A
Rated current -10°C	6.90 A
Rated current -5°C	6.80 A
Rated current at 0°C	6.70 A
Rated current 5°C	6.60 A
Rated current 10°C	6.50 A
Rated current 15°C	6.40 A
Rated current at 20°C	6.20 A
Rated current 25°C	6.10 A
Rated current 30°C	6 A
Rated current 35°C	5.90 A
Rated current at 40°C	5.80 A
Rated current at 50°C	5.60 A
Rated current 55°C	5.50 A
Rated current 60°C	5.40 A
Correction factor of rating current for 2 devices placed side by side	1
Correction factor of rating current for 3 devices placed side by side	0.95
Correction factor of rating current for 4 and 5 devices placed side by side	0.90
Correction factor of rating current for 6 devices placed side by side	0.85
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	6 kA

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	6 kA

Connectivity	
Type of connection	Screw terminal

Voltage	
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	4,000 V
Max. operating voltage	240 V
Rated operational voltage Ue	240 - 240 V
Overvoltage category according to IEC 60947-1	3

Power	
Total power loss under IN	1.90 W

Frequency	
Frequency	50 - 50 Hz

Use conditions	
Max. Altitude	2,000 m
Class of energy limitation I²t	3
Operating temperature	-25 - 40 °C
Storage/transport temperature	-25 - 70 °C

Endurance	
Electric endurance in number of cycles	2,000
Number of mechanical operations	2,000

Connection	
Cross-section flexible conductor	1 - 16 mm²
Cross-section rigid conductor	1 - 25 mm²
Cross-section of input with screws, for flexible conductors	1 - 16 mm²
Cross-section of input with screws, for massive conductors	1 - 25 mm²
Cross-section of output with screws, for flexible conductors	1 - 16 mm²
Cross-section of output with screws, for massive conductors	1 - 25 mm²
Cross-section of input and output with screws, for flexible conductors	1 - 16 mm²
Cross-section of input and output with screws, for massive conductors	1 - 25 mm²

Installation, mounting	
Nominal tightening torque	2.10 - 2.10 Nm
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect

Capacity	

Number of modules	2

Dimensions

Height	83 mm
Width	35 mm
Depth	68 mm