



ADA566T

RCBO 1P+N 10kA C-16A 30mA A Class

Technical properties

Architecture

Type of pole	1P+N
Curve	C

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
Nominal tightening torque down terminal	2,10 - 2,10 Nm
Nominal tightening torque top terminal	2,10 - 2,10 Nm

Connectivity

Type of connection	Screw terminal
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Voltage

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	4000 V
Max. operating voltage	240 V
Rated operational voltage U_e	230 - 240 V
Overvoltage category according to IEC 60947-1	3
Type voltage supply	AC
Dielectric strength value of power frequency	2 kV

Electric current

Rated current	16 A
Rated residual operating current I_{dn}	30 mA
Rated current -25°C	18,50 A
Rated current at -20°C	18,30 A
Rated current -15°C	18,10 A
Rated current -10°C	17,90 A
Rated current -5°C	17,70 A
Rated current at 0°C	17,40 A
Rated current 5°C	17,20 A
Rated current 10°C	17 A
Rated current 15°C	16,70 A
Rated current at 20°C	16,50 A

Rated current 25°C	16,20 A
Rated current 30°C	16 A
Rated current 35°C	15,80 A
Rated current at 40°C	15,60 A
Rated current at 45°C	15,40 A
Rated current at 50°C	15,20 A
Rated current 55°C	15 A
Rated current 60°C	14,80 A
Correction factor of rating current for 2 devices placed side by side	1
Min./max. threshold value of the AC thermal operation	1,13 - 1,45 A
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
Rated service breaking capacity Ics AC according to IEC 60898-1	7,50 kA
Power	
Total power loss under IN	5,20 W
Frequency	
Frequency	50 - 50 Hz
Use conditions	
Max. Altitude	2000 m
Class of energy limitation I ² t	3
Operating temperature	-25 - 40 °C
Storage/transport temperature	-25 - 70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	For all climates
Endurance	
Electric endurance in number of cycles	2000
Number of mechanical operations	2000
Connection	
Cross-section flexible conductor	1 - 16 mm ²
Cross-section rigid conductor	1 - 25 mm ²
Cross-section of input with screws, for flexible conductors	1 - 16 mm ²
Cross-section of input with screws, for massive conductors	1 - 25 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	

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, Bypass
Capacity	
Number of modules	2
Dimensions	
Height	83 mm
Width	35 mm
Depth	68 mm
Compatibility	
Suitable for DIN Rail	Yes