



ADA970U

RCBO 1P+N 6kA C-20A 30mA A Class

Technical characteristics

Architecture

Type of pole	1P+N
Curve	C

Electric current

Rated current	20 A
Rated residual operating current I _{dn}	30 mA
Rated current -25°C	22.70 A
Rated current at -20°C	22.50 A
Rated current -15°C	22.20 A
Rated current -10°C	22 A
Rated current -5°C	21.80 A
Rated current at 0°C	21.50 A
Rated current 5°C	21.30 A
Rated current 10°C	21 A
Rated current 15°C	20.80 A
Rated current at 20°C	20.50 A
Rated current 25°C	20.30 A
Rated current 30°C	20 A
Rated current 35°C	19.80 A
Rated current at 40°C	19.60 A
Rated current at 50°C	19.20 A
Rated current 55°C	19 A
Rated current 60°C	18.80 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

Safety

Residual current type	A
Ingress Protection (IP) class	IP20

Main electrical attributes

Connectivity

Type of connection	Screw terminal
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Voltage

Rated insulation voltage U _i	500 V
Rated impulse withstand voltage U _{imp}	4,000 V
Max. operating voltage	240 V
Rated operational voltage U _e	240 - 240 V
Overvoltage category according to IEC 60947-1	3

Power

Total power loss under I _N	6.60 W
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Frequency

Frequency	50 - 50 Hz
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Use conditions

Max. Altitude	2,000 m
Class of energy limitation I ² t	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 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

Capacity

Number of modules	2
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Dimensions

Height	83 mm
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Width	35 mm
Depth	68 mm