



AD990B

RCBO 1P+N 6kA C-40A 30mA AC Class

Technical Features

Architecture

Type of pole	1P+N
Curve	C

Electric current

Rated current	40 A
Rated residual operating current I _{dn}	30 mA
Rated current -25°C	46.90 A
Rated current at -20°C	46.30 A
Rated current -15°C	45.60 A
Rated current -10°C	45 A
Rated current -5°C	44.40 A
Rated current at 0°C	43.80 A
Rated current 5°C	43.10 A
Rated current 10°C	42.50 A
Rated current 15°C	41.90 A
Rated current at 20°C	41.30 A
Rated current 25°C	40.60 A
Rated current 30°C	40 A
Rated current 35°C	39.40 A
Rated current at 40°C	38.80 A
Rated current at 45°C	38.20 A
Rated current at 50°C	37.50 A
Rated current 55°C	36.90 A
Rated current 60°C	36.20 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

Safety

Residual current type	AC
Ingress Protection (IP) class	IP20

Main electrical attributes

Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1	6 kA
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Connectivity

Type of connection	Screw terminal
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Voltage

Rated insulation voltage U _i	500 V
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Electric current

Rated service breaking capacity I _{cs} AC according to IEC 60898-1	6 kA
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Voltage

Rated impulse withstand voltage U _{imp}	4000 V
Max. operating voltage	240 V
Rated operational voltage U _e	240 - 240 V
Overtoltage category according to IEC 60947-1	3
Type voltage supply	AC

Power

Total power loss under I _N	11.10 W
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Frequency

Frequency	50 - 50 Hz
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Use conditions	
Max. Altitude	2000 m
Installation, mounting	
Nominal tightening torque down terminal	2.10 - 2.10 Nm
Nominal tightening torque top terminal	2.10 - 2.10 Nm
Use conditions	
Class of energy limitation I ² t	3
Endurance	
Electric endurance in number of cycles	2000
Number of mechanical operations	1000
Connection	
Cross-section rigid conductor	1 - 25 mm ²
Installation, mounting	
Nominal tightening torque	2.10 - 2.10 Nm
Capacity	
Number of modules	2
Installation, mounting	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
Dimensions	
Height	83 mm
Width	35 mm
Depth	68 mm
Use conditions	
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
Sustainability	
RoHS conform	Yes