



AD990B

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

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 -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	43.20 A
Rated current 25°C	40.60 A
Rated current 30°C	40 A
Rated current 35°C	38.40 A
Rated current at 40°C	36.80 A
Rated current at 45°C	35.20 A
Rated current at 50°C	33.60 A
Rated current 55°C	32 A
Rated current 60°C	30.40 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	2000 V
Rated impulse withstand voltage U_{imp}	6000 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	14.20 W
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Frequency

Frequency	50 - 50 Hz
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Use conditions

Max. Altitude	2000 m
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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
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Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	2000

Connection

Cross-section rigid conductor	1 - 25 mm ²
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Installation, mounting

Nominal tightening torque	2.10 - 2.10 Nm
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Capacity

Number of modules	2
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Dimensions

Height	83 mm
Width	35 mm
Depth	68 mm

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	For all climates
