



AD990J

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

Technical characteristics

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	2 P
Type of pole	1P+N
Curve	C

Configuration

Number of modules	2
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Connectivity

Top connection alignment for modular devices	Aligned terminal
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Main electrical features

Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	6 kA
Rated operational voltage U_e	240 V
Frequency	50 Hz

Voltage

Rated insulation voltage	500 V
Max operating voltage	240 V
Rated impulse withstand voltage	4 kV

Electric current

Rated residual operating current	30 mA
Rated current	40 A
Withstand not tripping on 8-20 μ s wave	250 A
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 I_n
Magnetic regulating current	5 / 10 I_n
Rated short circuit breaking capacity I_{cn} under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 230V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 240V AC IEC 60947-2	6 kA

Electric current / temperature

Rating current -25°C	46,9 A
Rating current -20°C	46,3 A
Rating current -15°C	45,6 A
Rating current -10°C	45 A
Rating current -5°C	44,4 A

Rating current 0°C	43,8 A
Rating current 30°C	40 A
Rating current 35°C	39,4 A
Rating current 40°C	38,8 A
Rating current 45°C	38,2 A
Rating current 50°C	37,5 A
Rating current 55°C	36,9 A
Rating current 60°C	36,2 A
Current correction factors	
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	0,9
Correction factor of rating current for 6 devices placed side-by-side	0,85
Dimensions	
Depth of installed product	68 mm
Height of installed product	83 mm
Width of installed product	35 mm
Frequency	
Frequency	50 Hz
Selectivity	
Maximal rating current of downstream aM fuse for selectivity on short-circuit	10 A
Maximal rating current of downstream gL fuse for selectivity on short-circuit	20 A
Minimal rating current of upstream aM fuse for selectivity on short-circuit	50 A
Minimal rating current of upstream gL fuse for selectivity on short-circuit	63 A
Power	
Total power loss under I _N	11,1 W
Power loss per pole at I _n	6,2 W
Tripping	
Protected against nuisance tripping	No
Endurance	
Electric endurance in number of cycles	2000
Number of mechanical operations	1000
Installation, mounting	
Tightening torque	2,1Nm
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 16 mm ²
Connection cross-section at output with screw, for massive conductor	1 / 25 mm ²
Connection cross-sect. flexible conductor	1 / 16mm ²
Connection cross-sect. rigid cable	1 / 25mm ²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm ²

Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm ²
Type of connection	with screw
Standards	
Standard text	EN 61009-1
European directive WEEE	concerned
Safety	
Protection index IP	IP2X
Residual current type	A
Use conditions	
Operating temperature	-25...40 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25...70 °C
temperatur	
Temperature of calibration	30 °C
Identification	
Search words	FI-relay miniature circuit breaker