Product Datasheet
AD990J



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

Technical Features

Architecture	
Type of pole	1P+N
Number of protected poles	1
Curve	C
Electric current	
Rated current IN	40 A
Rated residual operating current Idn	30 mA
Rated current at -25°C	46.89 A
Rated current at -20°C	46.26 A
Rated current at -15°C	45.64 A
Rated current at -10°C	45.01 A
Rated current at -5°C	44.38 A
Rated current at 0°C	43.76 A
Rated current at 5°C	43.13 A
Rated current at 10°C	42.51 A
Rated current at 15°C	41.88 A
Rated current at 20°C	41.25 A
Rated current at 25°C	40.63 A
Rated current at 30°C	40 A
Rated current at 35°C	39.38 A
Rated current at 40°C	38.77 A
Rated current at 45°C	38.15 A
Rated current at 50°C	37.53 A
Rated current at 55°C	36.91 A
Rated current at 60°C	36.3 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
Safety	
Residual current type	A
Ingress Protection (IP) class	IP2X
Main electrical attributes	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	6 kA
Voltage	
Rated insulation voltage Ui	500 V
Electric current	
Rated service breaking capacity Ics AC according to IEC 60898-1	6 kA
Voltage	
Rated impulse withstand voltage Uimp	4000 V
Max. operating voltage	240 V
Rated operational voltage Ue	240 - 240 V
Overvoltage category according to IEC 60947-1	3
Type voltage supply	AC
Power	
Power dissipation at IN	11.10 W
Frequency	
Frequency	50 - 50 Hz
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^2t	3
Endurance	
Electric endurance in number of cycles	2000
Number of mechanical operations	1000
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
Capacity	
Number of modules	2
Installation, mounting	
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
Connection	
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
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	For all climates
Sustainability	
RoHS conform	Yes