



AD990J

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

**Technical Features**

**Architecture**

Type of pole	1P+N
Curve	C

**Electric current**

Rated current	40 A
Rated residual operating current Idn	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 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
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
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	6 kA

**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
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**Connectivity**

Type of connection	Screw terminal
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**Voltage**

Rated insulation voltage Ui	500 V
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

**Power**

Total power loss under IN	11.10 W
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**Frequency**

Frequency	50 - 50 Hz
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**Use conditions**

Max. Altitude	2000 m
Class of energy limitation I <sup>2</sup> t	3

**Endurance**

Electric endurance in number of cycles	2000
Number of mechanical operations	1000

**Connection**

Cross-section flexible conductor	1 - 16 mm <sup>2</sup>
Cross-section rigid conductor	1 - 25 mm <sup>2</sup>
Cross-section of input with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 25 mm <sup>2</sup>
Cross-section of output with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of output with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Installation, mounting**

Nominal tightening torque	2.10 - 2.10 Nm
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**Capacity**

Number of modules	2
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**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

**Connection**

Cross-section of input and output with screws, for flexible conductors	1 - 16 mm <sup>2</sup>
Cross-section of input and output with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Sustainability**

RoHS conform	Yes
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