



AD940J

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

**Technical properties**

**Architecture**

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

**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 Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	240 V
Frequency	50 Hz

**Voltage**

Rated insulation voltage	500 V
Max operating voltage	240 V
Rated impulse withstand voltage	4000 V

**Electric current**

Rated residual operating current	30 mA
Rated current	40 A
Withstand not tripping on 8-20 $\mu$ s wave	250 A
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating current	3 / 5 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	6 kA

**Electric current / temperature**

Rating current -25°C	46.9 A
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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 5°C	43.1 A
Rating current 10°C	42.5 A
Rating current 15°C	41.9 A
Rating current 20°C	41.3 A
Rating current 25°C	40.6 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
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#### **Selectivity**

Maximal rating current of downstream aM fuse for selectivity on short-circuit	6 A
Maximal rating current of downstream gL fuse for selectivity on short-circuit	12 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	50 A

#### **Power**

Total power loss under IN	11.1 W
Power loss per pole at In	6.2 W

#### **Tripping**

Protected against nuisance tripping	No
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**Endurance**

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

**Installation, mounting**

Tightening torque	2,1Nm
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**Connection**

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 25 mm <sup>2</sup>
Connection cross-sect. flexible conductor	1 / 16mm <sup>2</sup>
Connection cross-sect. rigid cable	1 / 25mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm <sup>2</sup>
Type of connection	with screw

**Standards**

Standard text	EN 61009-1
European directive WEEE	concerned

**Safety**

Protection index IP	IP20
Residual current type	A
REACH conform	No
RoHS conform	Yes
Halogen free	No

**Use conditions**

Operating temperature	-25...40 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25...70 °C

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Temperature of calibration	30 °C
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