



ADC920T

**RCBO 1M 1P+N 6kA C-20A 30mA A**

**Technical properties**

**Architecture**

Neutral position	right
Number of protected poles	1
Number of poles	2 P
Fixing mode	DIN rail type O (symmetrical)
Curve	C

**Configuration**

Number of modules	1
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**Connectivity**

Top connection alignment for modular devices	Shifted terminal
Bottom connection alignment for modular devices	Aligned terminal

**Main electrical features**

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	6 kA
Rated operational voltage $U_e$	230 / 240 V
Type of supply voltage	AC
Frequency	50 Hz

**Voltage**

Rated insulation voltage	440 V
Max operating voltage	264 V
Rated impulse withstand voltage	4 kV

**Electric current**

Rated residual operating current	30 mA
Rated current	20 A
Withstand not tripping on 8-20 $\mu$ s wave	250 A
Breaking and opening capacity	4.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	5 / 10 $I_n$

**Electric current / temperature**

Rating current -25°C	25.5 A
Rating current -20°C	25 A
Rating current -15°C	24.5 A
Rating current -10°C	24 A

Rating current -5°C	23.5 A
Rating current 0°C	23 A
Rating current 5°C	22.5 A
Rating current 10°C	22 A
Rating current 15°C	21.5 A
Rating current 20°C	21 A
Rating current 25°C	20.5 A
Rating current 30°C	20 A
Rating current 35°C	19.6 A
Rating current 40°C	19.2 A
Rating current 45°C	18.8 A
Rating current 50°C	18.4 A
Rating current 55°C	18 A
Rating current 60°C	17.6 A
Rating current 65°C	17.2 A
Rating current 70°C	16.8 A

### Dimensions

Depth of installed product	70 mm
Height of installed product	85 mm
Width of installed product	17.7 mm

### Frequency

Frequency	50 Hz
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### Power

Total power loss under IN	11.68 W
Power loss per pole at In	7.58 W

### Installation, mounting

Type of top connection for modular devices	with screw
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	No
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes

### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 10 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 16 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 16 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 10 mm <sup>2</sup>
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Connection cross-section of input and output with screws, for massive conductors	1 / 16 mm <sup>2</sup>

Subject to technical modifications

### Cable

Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm <sup>2</sup> ) according to product standard	2.5 mm <sup>2</sup>

### Equipment

Quick connect	no
Type selective	No
Can be accessorized	No
With transparent product label holder	Yes

### Standards

Standard text	IEC 61009-1 ; AS/NZS 61009-1
European directive WEEE	concerned

### Safety

Protection index IP	IP2X
Residual current type	A

### Use conditions

Operating temperature	-25...70 °C
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-25...80 °C

### temperatur

Temperature of calibration	30 °C
Ambient air temperature during heating test according to the product standard	23.4 °C
Max. admissible temperature on accessible parts (intended to be touched)	64.9 °C
Max. admissible temperature on accessible parts (manual operating means)	48.9 °C
Max. admissible temperature on access. parts (not touched for normal operation)	94.1 °C
Max. admissible temperature on terminals	82.2 °C
Temp.-rise limits for access. parts (toggle) according to product standard	40 K
Temp.-rise limits for access. parts (not touched) according to product standard	60 K
Temp.rise limits for access. parts (to be touched) according to product standard	40 K
Temperature-rise limits for terminals according to the product standard	65 K
Temperature-rise measured on accessible parts at In (manual operating means)	8.9 K
Temperature-rise measured on access. parts at In (not touched normal operation)	54.1 K
Temperature-rise measured on accessible parts at In (intended to be touched)	24.9 K

