



## RCBO 1P 6kA C-20A 30mA A

ADA120T

### Architecture

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

### Compatibility

Compatible with DIN rail mounting	yes
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### Connectivity

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

### Main electrical features

Type of supply voltage	AC
Rated operational voltage Ue	230/240 V

### Voltage

Rated insulation voltage	250 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V

### Electric current

Rated residual operating current	30 mA
Withstand not tripping on 8-20 $\mu$ s wave	3 kA
Rated short circuit breaking capacity I <sub>cn</sub> under 230V AC according IEC 61009-1	6 kA
Rated short circuit breaking capacity I <sub>cn</sub> under 240V AC according IEC 61009-1	6 kA
Rated service breaking capacity I <sub>cs</sub> under 230V AC according IEC 61009-1	6 kA
Rated service breaking capacity I <sub>cs</sub> under 240V AC according IEC 61009-1	6 kA
Breaking and opening capacity	6 kA
Magnetic regulating current at 40° C	5/10 In

Technical Properties

min/maxi threshold value of the AC thermal operation 1,13/1,45 In

**Electric current / temperature**

Rating current -15°C	24,73 A
Rating current -20°C	25,25 A
Rating current 0°C	23,15 A
Rating current 10°C	22,1 A
Rating current -10°C	24,2 A
Rating current 15°C	21,58 A
Rating current 20°C	21,05 A
Rating current 25°C	20,53 A
Rating current -25°C	25,78 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 5°C	22,63 A
Rating current -5°C	23,68 A
Rating current 50°C	18,4 A
Rating current 55°C	18 A
Rating current 60°C	17,6 A

**Current correction factors**

Correction factor of rating current for 2 devices placed 1 side-by-side

Correction factor of rating current for 3 devices placed 0,95 side-by-side

Correction factor of rating current for 4 and 5 devices 0,9 placed side-by-side

Correction factor of rating current for 6 devices placed 0,85 side-by-side

**Power**

Power loss per pole at In	2,98 W
Total power loss under IN	5,76 W

**Tripping**

Protected against nuisance tripping no

**Endurance**

Electric endurance in number of cycles	2000
Number of mechanical operations	4000

**Dimensions**

Depth of installed product	70 mm
Height of installed product	115 mm
Width of installed product	17,5 mm

**Installation, mounting**

Type of top connection for modular devices	with screw
Type of bottom rail clip for modular devices	metallic isolated
Type of Bottom Connection for modular devices	Blconnect
Bottom removability for modular devices	no
Top removability for modular devices	no

Technical Properties

Suitable for flush-mounting	yes
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**Connection**

Upstream cage clamp delivery status	opened
Downstream cage clamp delivery status	opened
Connection cross-section at output with screw, for flexible conductor	1/16 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1/10 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1/25 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1/16 mm <sup>2</sup>
Nominal tightening torque bottom terminal	3,2 Nm
Nominal tightening torque top terminal	2,1 Nm

**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**

Can be accessorized	no
Quick connect	no

**Standards**

European directive WEEE	concerned
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**Safety**

Protection index IP	IP20
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**Use conditions**

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage temperature	-25 to 60 °C
Air humidity protection	Execution II

**temperatur**

Temp.-rise limits for access. parts (not touched) according to product standard	60 K
Temperature of calibration	30 °C
Ambient air temperature during heating test according to the product standard	22,8 °C
Max. admissible temperature on accessible parts (intended to be touched)	53,2 °C
Max. admissible temperature on accessible parts (manual operating means)	47,1 °C
Max. admissible temperature on access. parts (not touched for normal operation)	65,7 °C
Max. admissible temperature on terminals	62,1 °C

Technical Properties

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Temperature-rise measured on accessible parts at In 13,2 K  
(intended to be touched)

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Temperature-rise measured on accessible parts at In 7,1 K  
(manual operating means)

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Temperature-rise measured on access. parts at In 25,7 K  
(not touched normal operation)

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Temperature-rise measured on terminals at In 22,1 K

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Temp.-rise limits for access. parts (toggle) according 25 K  
to product standard

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Temp.rise limits for access. parts (to be touched) 40 K  
according to product standard

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Temperature-rise limits for terminals according to the 65 K  
product standard

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