ADA120T

RCBO Electronic 1M 1P 6kA C-20A 30mA A

Technical properties

Architecture

Neutral position	right
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	C

Configuration

Number of modules	1

Connectivity

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

Main electrical features

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

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
Rated current	20 A
Withstand not tripping on 8-20 µs wave	3 kA
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	5 / 10 In

Electric current / temperature

Rating current -25°C	25.78 A
Rating current -20°C	25.25 A
Rating current -15°C	24.73 A
Rating current -10°C	24.2 A
Rating current -5°C	23.68 A
Rating current 0°C	23.15 A

Rating current 5°C	22.63 A
Rating current 10°C	22.1 A
Rating current 15°C	21.58 A
Rating current 20°C	21.05 A
Rating current 25°C	20.53 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

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	70 mm
Height of installed product	115 mm
Width of installed product	17.5 mm

Frequency

Frequency	50 Hz

Power

Total power loss under IN	5.76 W
Power loss per pole at In	2.98 W

Endurance

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

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	BIconnect
Top removability for modular devices	No
Bottom removability for modular devices	No
Suitable for flush-mounting	Yes

Connection

Connection cross-section at output with screw, for flexible conductor	1 / 16 mm²

Connection cross-section at output with screw, for massive conductor	1 / 25 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 16 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 10 mm²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened

Cable

Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm²) according to product standard	2.5 mm²

Equipment

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

Standards

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	-5…60 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	Execution II
Storage/transport temperature	-25…60 °C

temperatur

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
Temp.-rise limits for access. parts (toggle) according to product standard	25 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)	7.1 K
Temperature-rise measured on access. parts at In (not touched normal operation)	25.7 K
Temperature-rise measured on accessible parts at In (intended to be touched)	13.2 K
Temperature-rise measured on terminals at In	22.1 K