



ADC920T

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

Architecture

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

Frequency	50 Hz
Rated short circuit breaking capacity I _{cn} AC according IEC60898-1	6 kA
Type of supply voltage	AC
Rated operational voltage U _e	230/240 V

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
Withstand not tripping on 8-20 μs wave	0,25 kA
Rated short circuit breaking capacity I _{cn} under 230V AC according IEC 61009-1	6 kA
Rated short circuit breaking capacity I _{cn} under 240V AC according IEC 61009-1	6 kA
Rated service breaking capacity I _{cs} under 230V AC according IEC 61009-1	6 kA

Technical Properties

Rated service breaking capacity Ics under 240V AC according IEC 61009-1	6 kA
Breaking and opening capacity	4,5 kA
Magnetic regulating current	5/10 In
min/maxi threshold value of the AC thermal operation	1,13/1,45 In

Electric current / temperature

Rating current -15°C	24,5 A
Rating current -20°C	25 A
Rating current 0°C	23 A
Rating current 10°C	22 A
Rating current -10°C	24 A
Rating current 15°C	21,5 A
Rating current 20°C	21 A
Rating current 25°C	20,5 A
Rating current -25°C	25,5 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 5°C	22,5 A
Rating current -5°C	23,5 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

Power

Power loss per pole at In	7,58 W
Total power loss under IN	11,68 W

Dimensions

Depth of installed product	70 mm
Height of installed product	85 mm
Width of installed product	17,7 mm

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
Bottom removability for modular devices	yes
Top removability for modular devices	no
Suitable for flush-mounting	yes

Connection

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

Technical Properties

Nominal tightening torque bottom terminal	2,1 Nm
Nominal tightening torque top terminal	1,9 Nm
Connection cross section of access and exit with screws, for flexible conductor	1/10 mm ²
Connection cross-section of input and output with screws, for massive conductors	1/16 mm ²

Cable

Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm ²) according to product standard	2,5 mm ²

Equipment

Can be accessorized	no
Quick connect	no
Type selective	no

Standards

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

Safety

Protection index IP	IP20
Residual current type	A

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Storage/transport temperature	-25 80 °C

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	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
Temperature-rise measured on accessible parts at In (intended to be touched)	24,9 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 terminals at In	42,2 K
Temp.-rise limits for access. parts (toggle) according to product standard	40 K

Technical Properties

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

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