RCBO 1P 6kA C-10A 30mA A Class 1M

ADC310T

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

Connectivity

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

Main electrical features

Frequency	50 Hz
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Type of supply voltage	AC
Rated operational voltage Ue	240 V

Voltage

Rated insulation voltage	250 V
Max operating voltage	253 V
Dielectric strength value of power frequency	2 kV
Rated impulse withstand voltage	4000 V

Electric current

Rated residual operating current	30 mA
Withstand not tripping on 8-20 ?s wave	3 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 61009-1	6 kA
Rated service breaking capacity Ics under 240V AC according IEC 61009-1	6 kA
Breaking and opening capacity	4,5 kA
Magnetic regulating currrent 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	12,85 A
Rating current -20°C	13,1 A
Rating current 0°C	12,1 A
Rating current 10°C	11,6 A
Rating current -10°C	12,8 A
Rating current 15°C	11,35 A
Rating current 20°C	11,1 A
Rating current 25°C	10,85 A
Rating current -25°C	13,35 A
Rating current 30°C	10 A
Rating current 35°C	10,35 A
Rating current 40°C	10,1 A
Rating current 45°C	9,85 A
Rating current 5°C	11,85 A
Rating current -5°C	12,35 A
Rating current 50°C	10 A
Rating current 55°C	9,35 A
Rating current 60°C	9,1 A
Rating current 65°C	8,85 A
Rating current 70°C	8,6 A

Current correction factors

Correction factor of magnetic tripping with 100 Hz	1,1
Correction factor of magnetic tripping with 200 Hz	1,3
Correction factor of magnetic tripping with 400 Hz	1,6
Correction factor of magnetic tripping with 60 Hz	1
Correction factor of rating current for 2 devices placed side-by-side	0,95
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

Power

Power loss per pole at In	2,56 W
Total power loss under IN	3,02 W

Tripping

Protected against nuisance tripping	no

Endurance

Electric endurance in number of cycles	16000
Number of mechanical operations	20000

Dimensions

Depth of installed product	70 mm
Height of installed product	92 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 top rail clip for modular devices	NA
Type of Bottom Connection for modular devices	with screw
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	1/16 mm²
Connection cross-section of the access with screws, with flexible conductor	1/10 mm²
Connection cross-section at output with screw, for massive conductor	1/16 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1/16 mm²
Nominal tightening torque bottom terminal	2,8 Nm
Nominal tightening torque top terminal	1,9 Nm

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	1,5 mm²

Equipment

Can be accessorized	no
Quick connect	no
Type selective	no

Standards

Standard text	IEC 61009-1, AS/NZS 61009-1
European directive WEEE	not concerned

Safety

Protection index IP	IP20
Residual current type	A

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Class of energy limitation I²t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C

temperatur

Temp.-rise limits for access. parts (not touched) according to product standard	60 K
Temperature of calibration	30 °C

Technical Properties

Ambient air temperature during heating test according to the product standard	23,4 °C
Max. admissible temperature on accessible parts (intended to be touched)	57,92 °C
Max. admissible temperature on accessible parts (manual operating means)	48,2 °C
Max. admissible temperature on access. parts (not touched for normal operation)	59,75 °C
Max. admissible temperature on terminals	60,18 °C
Temperature-rise measured on accessible parts at In (intended to be touched)	17,92 K
Temperature-rise measured on accessible parts at In (manual operating means)	8,2 K
Temperature-rise measured on access. parts at In (not touched normal operation)	19,75 K
Temperature-rise measured on terminals at In	20,18 K
Temp.-rise limits for access. parts (toggle) according to product standard	25 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

Identification

Device family	ADC