



## RCBO 1P+N 6kA C-10A 30mA type A Class

ADA910T

### 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                             |

### Functions

|          |     |
|----------|-----|
| Sealable | yes |
|----------|-----|

### Compatibility

|                                   |     |
|-----------------------------------|-----|
| Compatible with DIN rail mounting | yes |
|-----------------------------------|-----|

### Controls and indicators

|                                 |     |
|---------------------------------|-----|
| With Contact position indicator | no  |
| With fault indicator            | yes |

### Connectivity

|                                                 |                  |
|-------------------------------------------------|------------------|
| Top connection alignment for modular devices    | Aligned terminal |
| Bottom connection alignment for modular devices | Aligned terminal |

### Main electrical features

|                              |              |
|------------------------------|--------------|
| Rated operational voltage Ue | 230 - 240 V~ |
| Type of supply voltage       | AC           |

### Voltage

|                                              |        |
|----------------------------------------------|--------|
| Dielectric strength value of power frequency | 2 kV   |
| Rated insulation voltage                     | 500 V  |
| Max operating voltage                        | 240 V  |
| Rated impulse withstand voltage              | 4000 V |

#### Electric current

|                                                      |                |
|------------------------------------------------------|----------------|
| Rated residual operating current                     | 30 mA          |
| Rated current                                        | 10 A           |
| Withstand not tripping on 8-20 ?s wave               | 250 A          |
| Breaking and opening capacity                        | 4500 A         |
| min/maxi threshold value of the AC thermal operation | 1,13 / 1,45 In |
| Magnetic regulating current                          | 5 / 10 In      |

#### Electric current / temperature

|                      |        |
|----------------------|--------|
| Rating current -25°C | 12 A   |
| Rating current -20°C | 11,8 A |
| Rating current -15°C | 11,7 A |
| Rating current -10°C | 11,5 A |
| Rating current -5°C  | 11,3 A |
| Rating current 0°C   | 11,1 A |
| Rating current 5°C   | 11 A   |
| Rating current 10°C  | 10,8 A |
| Rating current 15°C  | 10,6 A |
| Rating current 20°C  | 10,4 A |
| Rating current 25°C  | 10,2 A |
| Rating current 30°C  | 10 A   |
| Rating current 35°C  | 9,9 A  |
| Rating current 40°C  | 9,7 A  |
| Rating current 45°C  | 9,6 A  |
| Rating current 50°C  | 9,4 A  |
| Rating current 55°C  | 9,3 A  |
| Rating current 60°C  | 9,1 A  |
| Rating current 70°C  | 6,8 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      |  |

#### Frequency

|           |       |
|-----------|-------|
| Frequency | 50 Hz |
|-----------|-------|

#### Power

|                           |       |
|---------------------------|-------|
| Total power loss under IN | 3,4 W |
| Power loss per pole at In | 2,8 W |

#### Endurance

|                                        |      |
|----------------------------------------|------|
| Electric endurance in number of cycles | 2000 |
| Number of mechanical operations        | 2000 |

#### Dimensions

|                             |       |
|-----------------------------|-------|
| Depth of installed product  | 68 mm |
| Height of installed product | 83 mm |
| Width of installed product  | 35 mm |

#### Installation, mounting

|                                               |                    |
|-----------------------------------------------|--------------------|
| Type of top connection for modular devices    | with screw         |
| Tightening torque                             | 2,1Nm              |
| Type of top rail clip for modular devices     | NA                 |
| Type of bottom rail clip for modular devices  | plastic            |
| Type of Bottom Connection for modular devices | Blconnect + bypass |
| Top removability for modular devices          | no                 |
| Bottom removability for modular devices       | yes                |
| Suitable for flush-mounting                   | yes                |
| 360° product mounting position                | yes                |

#### Connection

|                                                                                  |                        |
|----------------------------------------------------------------------------------|------------------------|
| Connection cross-section at output with screw, for flexible conductor            | 1 / 16 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 / 25 mm <sup>2</sup> |
| Connection cross-section of the access with screws, with flexible conductor      | 1 / 16 mm <sup>2</sup> |
| Cage clamp position                                                              | in line                |
| 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 / 25 mm <sup>2</sup> |
| Connection cross section of access and exit with screws, for flexible conductor  | 1 / 16 mm <sup>2</sup> |
| Nominal tightening torque bottom terminal                                        | 2,1 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 | 1,5 mm <sup>2</sup> |

#### Equipment

|                                       |     |
|---------------------------------------|-----|
| Can be accessorized                   | yes |
| Accept terminal cover                 | no  |
| With transparent product label holder | yes |

#### 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

|                                                          |           |
|----------------------------------------------------------|-----------|
| Operating temperature                                    | -25 40 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2         |
| Class of energy limitation I <sup>2</sup> t              | 3         |
| Altitude                                                 | 2000 m    |

Technical Properties

|                               |                  |
|-------------------------------|------------------|
| Air humidity protection       | for all climates |
| Storage/transport temperature | -25 70 °C        |

**temperatur**

|                                                                                  |         |
|----------------------------------------------------------------------------------|---------|
| Temperature of calibration                                                       | 30 °C   |
| Ambient air temperature during heating test according to the product standard    | 23,8 °C |
| Max. admissible temperature on accessible parts (intended to be touched)         | 53,2 °C |
| Max. admissible temperature on accessible parts (manual operating means)         | 42,7 °C |
| Max. admissible temperature on access. parts (not touched for normal operation)  | 67 °C   |
| Max. admissible temperature on terminals                                         | 58,7 °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)     | 2,7 K   |
| Temperature-rise measured on access. parts at In (not touched normal operation)  | 27 K    |
| Temperature-rise measured on accessible parts at In (intended to be touched)     | 13,2 K  |
| Temperature-rise measured on terminals at In                                     | 18,7 K  |