



ADA910T

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

**Technical properties**

**Architecture**

|                           |       |
|---------------------------|-------|
| Neutral position          | right |
| Number of protected poles | 1     |
| Number of poles           | 2 P   |
| Type of pole              | 1P+N  |
| Curve                     | C     |

**Configuration**

|                   |   |
|-------------------|---|
| Number of modules | 2 |
|-------------------|---|

**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              | 4 kV  |

**Electric current**

|                                                      |                |
|------------------------------------------------------|----------------|
| Rated residual operating current                     | 30 mA          |
| Rated current                                        | 10 A           |
| Withstand not tripping on 8-20 $\mu$ 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 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  | 68 mm |
| Height of installed product | 83 mm |
| Width of installed product  | 35 mm |

#### 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 |

#### 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                |

Subject to technical modifications

**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> |

**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 |
| With transparent product label holder | Yes |

**Standards**

|               |                              |
|---------------|------------------------------|
| Standard text | IEC 61009-1 ; AS/NZS 61009-1 |
|---------------|------------------------------|

**Safety**

|                       |     |
|-----------------------|-----|
| Residual current type | A   |
| REACH conform         | No  |
| RoHS conform          | Yes |
| Halogen free          | No  |

**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           |
| 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  |