



ADA906T

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

**Technical properties**

**Architecture**

|              |      |
|--------------|------|
| Type of pole | 1P+N |
| Curve        | C    |

**Electric current**

|   |               |
|---|---------------|
| Rated current   | 6 A           |
| Rated residual operating current I <sub>Δn</sub>                            | 30 mA         |
| Rated current -25°C   | 7,20 A        |
| Rated current at -20°C  | 7,10 A        |
| Rated current -15°C   | 7 A           |
| Rated current -10°C   | 6,90 A        |
| Rated current -5°C  | 6,80 A        |
| Rated current at 0°C  | 6,70 A        |
| Rated current 5°C   | 6,60 A        |
| Rated current 10°C  | 6,50 A        |
| Rated current 15°C  | 6,40 A        |
| Rated current at 20°C   | 6,20 A        |
| Rated current 25°C  | 6,10 A        |
| Rated current 30°C  | 6 A           |
| Rated current 35°C  | 5,90 A        |
| Rated current at 40°C   | 5,80 A        |
| Rated current at 50°C   | 5,60 A        |
| Rated current 55°C  | 5,50 A        |
| Rated current 60°C  | 5,40 A        |
| 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 | 0,90          |
| Correction factor of rating current for 6 devices placed side by side       | 0,85          |
| Min./max. threshold value of the AC thermal operation                       | 1,13 - 1,45 A |

**Safety**

|                               |      |
|-------------------------------|------|
| Residual current type         | A    |
| Ingress Protection (IP) class | IP20 |

**Main electrical attributes**

## Connectivity

|                    |                |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

## Voltage

|  |             |
|--|-------------|
| Rated insulation voltage U <sub>i</sub>          | 500 V       |
| Rated impulse withstand voltage U <sub>imp</sub> | 4000 V      |
| Max. operating voltage                           | 240 V       |
| Rated operational voltage U <sub>e</sub>         | 230 - 240 V |
| Overvoltage category according to IEC 60947-1    | 3           |

## Power

|                                       |        |
|---------------------------------------|--------|
| Total power loss under I <sub>N</sub> | 1,90 W |
|---------------------------------------|--------|

## Frequency

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

## Use conditions

|   |             |
|---|-------------|
| Max. Altitude                               | 2000 m      |
| Class of energy limitation I <sup>2</sup> t | 3           |
| Operating temperature                       | -25 - 40 °C |
| Storage/transport temperature               | -25 - 70 °C |

## Endurance

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

## Connection

|  |                        |
|--|------------------------|
| Cross-section flexible conductor                                       | 1 - 16 mm <sup>2</sup> |
| Cross-section rigid conductor  | 1 - 25 mm <sup>2</sup> |
| Cross-section of input with screws, for flexible conductors            | 1 - 16 mm <sup>2</sup> |
| Cross-section of input with screws, for massive conductors             | 1 - 25 mm <sup>2</sup> |
| Cross-section of output with screws, for flexible conductors           | 1 - 16 mm <sup>2</sup> |
| Cross-section of output with screws, for massive conductors            | 1 - 25 mm <sup>2</sup> |
| Cross-section of input and output with screws, for flexible conductors | 1 - 16 mm <sup>2</sup> |
| Cross-section of input and output with screws, for massive conductors  | 1 - 25 mm <sup>2</sup> |

## Installation, mounting

|   |                   |
|---|-------------------|
| Nominal tightening torque                     | 2,10 - 2,10 Nm    |
| Type of top connection for modular devices    | Screw terminal    |
| Type of bottom connection for modular devices | biconnect, Bypass |

## Capacity

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

| Dimensions            |       |
|-----------------------|-------|
| Height                | 83 mm |
| Width                 | 35 mm |
| Depth                 | 68 mm |
| Compatibility         |       |
| Suitable for DIN Rail | Yes   |