



ADC916T

## RCBO 1M 1P+N 6kA C-16A 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 |
|-----------------------------------|-----|

### 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 <sub>cn</sub> AC according IEC60898-1 |           |
| Type of supply voltage  | AC        |
| Rated operational voltage U <sub>e</sub>                                      | 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 <sub>cn</sub> under 230V AC according IEC 61009-1 | 6 kA    |
| Rated short circuit breaking capacity I <sub>cn</sub> under 240V AC according IEC 61009-1 | 6 kA    |
| Rated service breaking capacity I <sub>cs</sub> 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 | 19,7 A |
| Rating current -20°C | 20,1 A |
| Rating current 0°C   | 18,5 A |
| Rating current 10°C  | 17,6 A |
| Rating current -10°C | 19,3 A |
| Rating current 15°C  | 17,2 A |
| Rating current 20°C  | 16,8 A |
| Rating current 25°C  | 16,4 A |
| Rating current -25°C | 20,5 A |
| Rating current 30°C  | 16 A   |
| Rating current 35°C  | 15,7 A |
| Rating current 40°C  | 15,5 A |
| Rating current 45°C  | 15,2 A |
| Rating current 5°C   | 18,1 A |
| Rating current -5°C  | 18,9 A |
| Rating current 50°C  | 15 A   |
| Rating current 55°C  | 14,7 A |
| Rating current 60°C  | 14,5 A |
| Rating current 65°C  | 14,2 A |
| Rating current 70°C  | 14 A   |

#### Power

|                           |        |
|---------------------------|--------|
| Power loss per pole at In | 5,57 W |
| Total power loss under IN | 8,69 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 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 |

#### 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 <sup>2</sup> |
| Connection cross-section of input and output with screws, for massive conductors | 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 | 2,5 mm <sup>2</sup> |

#### 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 <sup>2</sup> 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   | 24 °C   |
| Max. admissible temperature on accessible parts (intended to be touched)        | 59,2 °C |
| Max. admissible temperature on accessible parts (manual operating means)        | 46,8 °C |
| Max. admissible temperature on access. parts (not touched for normal operation) | 78,5 °C |
| Max. admissible temperature on terminals  | 67,5 °C |
| Temperature-rise measured on accessible parts at In (intended to be touched)    | 19,2 K  |
| Temperature-rise measured on accessible parts at In (manual operating means)    | 6,8 K   |
| Temperature-rise measured on access. parts at In (not touched normal operation) | 38,5 K  |
| Temperature-rise measured on terminals at In                                    | 27,5 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)<br>according to product standard | 40 K |
|---|------|

---

|  |      |
|--|------|
| Temperature-rise limits for terminals according to the<br>product standard | 65 K |
|--|------|

---