



ADD216B

**RCBO 1M 1P 10kA D-16A 30mA A**

**Technical properties**

**Architecture**

|                           |       |
|---------------------------|-------|
| Neutral position          | right |
| Number of protected poles | 1     |
| Number of poles           | 1 P   |
| Type of pole              | 1 P   |
| Curve                     | D     |

**Configuration**

|                   |   |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

**Connectivity**

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

**Main electrical features**

|   |             |
|---|-------------|
| Rated short circuit breaking capacity I <sub>cn</sub> AC according IEC60898-1 | 10 kA       |
| Rated operational voltage U <sub>e</sub>                                      | 230 / 240 V |
| Type of supply voltage  | AC          |
| Frequency   | 50/60 Hz    |

**Voltage**

|                                 |        |
|---------------------------------|--------|
| Rated insulation voltage        | 250 V  |
| Rated impulse withstand voltage | 4000 V |

**Electric current**

|  |                            |
|--|----------------------------|
| Rated residual operating current                     | 30 mA                      |
| Rated current  | 16 A                       |
| Withstand not tripping on 8-20 μs wave               | 0.25 kA                    |
| Breaking and opening capacity                        | 6000 A                     |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 I <sub>n</sub> |
| Magnetic regulating current                          | 10 / 20 I <sub>n</sub>     |

**Electric current / temperature**

|                      |         |
|----------------------|---------|
| Rating current -25°C | 20.81 A |
| Rating current -20°C | 20.38 A |
| Rating current -15°C | 19.94 A |
| Rating current -10°C | 19.5 A  |
| Rating current -5°C  | 19.06 A |

|                     |         |
|---------------------|---------|
| Rating current 0°C  | 18.63 A |
| Rating current 5°C  | 18.19 A |
| Rating current 10°C | 17.75 A |
| Rating current 15°C | 17.31 A |
| Rating current 20°C | 16.88 A |
| Rating current 25°C | 16.44 A |
| Rating current 30°C | 16 A    |
| Rating current 35°C | 15.7 A  |
| Rating current 40°C | 15.4 A  |
| Rating current 45°C | 15.1 A  |
| Rating current 50°C | 14.8 A  |
| Rating current 55°C | 14.5 A  |
| Rating current 60°C | 14.2 A  |
| Rating current 65°C | 13.9 A  |
| Rating current 70°C | 13.6 A  |

### Dimensions

|                             |         |
|-----------------------------|---------|
| Depth of installed product  | 70 mm   |
| Height of installed product | 115 mm  |
| Width of installed product  | 17.8 mm |

### Frequency

|           |             |
|-----------|-------------|
| Frequency | 50 to 60 Hz |
|-----------|-------------|

### Power

|                           |       |
|---------------------------|-------|
| Total power loss under IN | 4.9 W |
| Power loss per pole at In | 2.6 W |

### Endurance

|  |       |
|--|-------|
| Electric endurance in number of cycles | 2000  |
| Number of mechanical operations        | 10000 |

### Installation, mounting

|   |                   |
|---|-------------------|
| Type of top connection for modular devices    | with screw        |
| Type of bottom rail clip for modular devices  | metallic isolated |
| Type of Bottom Connection for modular devices | Blconnect         |
| Top removability for modular devices          | No                |
| Bottom removability for modular devices       | No                |
| Suitable for flush-mounting                   | 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 / 16 mm <sup>2</sup> |
| Connection cross-section of the access with screws, with flexible conductor  | 1 / 10 mm <sup>2</sup> |
| Downstream cage clamp delivery status  | opened                 |

Subject to technical modifications

|   |                        |
|---|------------------------|
| 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> |
| <b>Cable</b>  |                        |
| 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>    |
| <b>Equipment</b>  |                        |
| Quick connect   | no                     |
| Type selective  | No                     |
| Can be accessorized   | No                     |
| With transparent product label holder   | Yes                    |
| <b>Standards</b>  |                        |
| Standard text   | IEC 61009-1            |
| <b>Safety</b>   |                        |
| Residual current type   | A                      |
| REACH conform   | No                     |
| RoHS conform  | Yes                    |
| Halogen free  | No                     |
| <b>Use conditions</b>   |                        |
| Operating temperature   | -5...40 °C             |
| Degree of pollution according to IEC 60664 / IEC 60947-2                                      | 2                      |
| Altitude  | 2000 m                 |
| Air humidity protection   | 95% / 55°C             |
| Storage/transport temperature   | -40...70 °C            |
| <b>temperatur</b>   |                        |
| Temperature of calibration  | 30 °C                  |
| Ambient air temperature during heating test according to the product standard                 | 22.9 °C                |
| Max. admissible temperature on accessible parts (intended to be touched)                      | 60.8 °C                |
| Max. admissible temperature on accessible parts (manual operating means)                      | 49.9 °C                |
| Max. admissible temperature on access. parts (not touched for normal operation)               | 63.3 °C                |
| Max. admissible temperature on terminals  | 59.7 °C                |
| Temp.-rise limits for access. parts (toggle) according to product standard                    | 40 K                   |
| Temp.-rise limits for access. parts (not touched) according to product standard               | 40 K                   |
| Temp.rise limits for access. parts (to be touched) according to product standard              | 60 K                   |
| Temperature-rise limits for terminals according to the product standard                       | 65 K                   |

|   |        |
|---|--------|
| Temperature-rise measured on accessible parts at In (manual operating means)    | 9.9 K  |
| Temperature-rise measured on access. parts at In (not touched normal operation) | 23.3 K |
| Temperature-rise measured on accessible parts at In (intended to be touched)    | 20.8 K |
| Temperature-rise measured on terminals at In                                    | 19.7 K |