



ADC240B

## RCBO 1M 1P 10kA C-40A 30mA A

### Technical properties

#### Architecture

|                           |                               |
|---------------------------|-------------------------------|
| Neutral position          | right                         |
| Number of protected poles | 1                             |
| Number of poles           | 1 P                           |
| Fixing mode               | DIN rail type O (symmetrical) |
| Curve                     | C                             |

#### 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 $I_{cn}$ AC according IEC60898-1 | 10 kA       |
| Rated operational voltage $U_e$                                        | 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                                        | 40 A              |
| Withstand not tripping on 8-20 $\mu$ s wave          | 0.25 kA           |
| Breaking and opening capacity                        | 6000 A            |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 $I_n$ |
| Magnetic regulating current                          | 5 / 10 $I_n$      |

#### Electric current / temperature

|                      |         |
|----------------------|---------|
| Rating current -25°C | 48.66 A |
| Rating current -20°C | 47.88 A |
| Rating current -15°C | 47.09 A |
| Rating current -10°C | 46.3 A  |
| Rating current -5°C  | 45.51 A |

|                     |         |
|---------------------|---------|
| Rating current 0°C  | 44.73 A |
| Rating current 5°C  | 43.94 A |
| Rating current 10°C | 43.15 A |
| Rating current 15°C | 42.36 A |
| Rating current 20°C | 41.58 A |
| Rating current 25°C | 40.79 A |
| Rating current 30°C | 40 A    |
| Rating current 35°C | 39.15 A |
| Rating current 40°C | 38.3 A  |
| Rating current 45°C | 37.45 A |
| Rating current 50°C | 36.6 A  |
| Rating current 55°C | 35.75 A |
| Rating current 60°C | 34.9 A  |
| Rating current 65°C | 34.05 A |
| Rating current 70°C | 33.2 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 | 12.5 W |
| Power loss per pole at In | 7.3 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 | 10 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            |
| European directive WEEE                                                                       | concerned              |
| <b>Safety</b>                                                                                 |                        |
| Protection index IP                                                                           | IP20                   |
| Residual current type                                                                         | A                      |
| REACH conform                                                                                 | No                     |
| RoHS conform                                                                                  | Yes                    |
| Halogen free                                                                                  | No                     |
| <b>Use conditions</b>                                                                         |                        |
| Operating temperature                                                                         | -5...40 °C             |
| Class of energy limitation I <sup>2</sup> t                                                   | 3                      |
| Altitude                                                                                      | 2000 m                 |
| 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                 | 22.4 °C                |
| Max. admissible temperature on accessible parts (intended to be touched)                      | 76.5 °C                |
| Max. admissible temperature on accessible parts (manual operating means)                      | 54 °C                  |
| Max. admissible temperature on access. parts (not touched for normal operation)               | 74.6 °C                |
| Max. admissible temperature on terminals                                                      | 73.3 °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                   |

Subject to technical modifications

|                                                                                 |        |
|---------------------------------------------------------------------------------|--------|
| Temperature-rise measured on accessible parts at In (manual operating means)    | 14 K   |
| Temperature-rise measured on access. parts at In (not touched normal operation) | 34.6 K |
| Temperature-rise measured on accessible parts at In (intended to be touched)    | 36.5 K |
| Temperature-rise measured on terminals at In                                    | 33.3 K |