



ADB510G

### Bidirectional RCBO 1M 1P+N 6kA B-10A 30mA type A

#### Technical Features

##### Architecture

|                           |      |
|---------------------------|------|
| Type of pole              | 1P+N |
| Number of protected poles | 1    |
| Curve                     | B    |

##### Electric current

|                                                       |              |
|-------------------------------------------------------|--------------|
| Rated current $I_N$                                   | 10 A         |
| Rated residual operating current $I_{dn}$             | 30 mA        |
| Rated current -25°C                                   | 12.30 A      |
| Rated current at -20°C                                | 12.10 A      |
| Rated current -15°C                                   | 11.90 A      |
| Rated current -10°C                                   | 11.70 A      |
| Rated current -5°C                                    | 11.50 A      |
| Rated current at 0°C                                  | 11.30 A      |
| Rated current 5°C                                     | 11.10 A      |
| Rated current 10°C                                    | 10.80 A      |
| Rated current 15°C                                    | 10.60 A      |
| Rated current at 20°C                                 | 10.40 A      |
| Rated current 25°C                                    | 10.20 A      |
| Rated current 30°C                                    | 10 A         |
| Rated current 35°C                                    | 9.80 A       |
| Rated current at 40°C                                 | 9.60 A       |
| Rated current at 50°C                                 | 9.20 A       |
| Rated current 55°C                                    | 9 A          |
| Rated current 60°C                                    | 8.70 A       |
| 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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Rated short-circuit breaking capacity $I_{cn}$ AC according to IEC 60898-1 | 6 kA |
|----------------------------------------------------------------------------|------|

##### Voltage

|                                               |             |
|-----------------------------------------------|-------------|
| Rated insulation voltage $U_i$                | 440 V       |
| Rated impulse withstand voltage $U_{imp}$     | 4000 V      |
| Max. operating voltage                        | 264 V       |
| Rated operational voltage $U_e$               | 230 - 230 V |
| Overvoltage category according to IEC 60947-1 | 3           |

##### Power

|                            |        |
|----------------------------|--------|
| Power dissipation at $I_N$ | 4.04 W |
|----------------------------|--------|

##### Frequency

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

##### Use conditions

|                                   |        |
|-----------------------------------|--------|
| Max. altitude                     | 2000 m |
| Class of energy limitation $I^2t$ | 3      |

##### Endurance

|                                        |       |
|----------------------------------------|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations        | 20000 |

##### Connection

|                                                             |                        |
|-------------------------------------------------------------|------------------------|
| Cross-section of input with screws, for flexible conductors | 1 - 10 mm <sup>2</sup> |
| Cross-section of input with screws, for massive conductors  | 1 - 16 mm <sup>2</sup> |

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**Capacity**

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

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**Installation, mounting**

|                                               |                |
|-----------------------------------------------|----------------|
| Type of top connection for modular devices    | Screw terminal |
| Type of bottom connection for modular devices | biconnect      |

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**Dimensions**

|        |          |
|--------|----------|
| Height | 85 mm    |
| Width  | 17.70 mm |
| Depth  | 70 mm    |

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**Use conditions**

|                               |             |
|-------------------------------|-------------|
| Operating temperature         | -25 - 70 °C |
| Storage/transport temperature | -25 - 80 °C |

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**Connection**

|                                                                        |                        |
|------------------------------------------------------------------------|------------------------|
| Cross-section of input and output with screws, for flexible conductors | 1 - 10 mm <sup>2</sup> |
| Cross-section of input and output with screws, for massive conductors  | 1 - 16 mm <sup>2</sup> |
| Cross-section of output with screws, for flexible conductors           | 1 - 10 mm <sup>2</sup> |
| Cross-section of output with screws, for massive conductors            | 1 - 16 mm <sup>2</sup> |

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**Compatibility**

|                       |     |
|-----------------------|-----|
| Suitable for DIN Rail | Yes |
|-----------------------|-----|

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**Sustainability**

|              |     |
|--------------|-----|
| RoHS conform | Yes |
|--------------|-----|