# Product Datasheet
ADB406U



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**RCBO 1M 1P 10kA B-6A 30mA Type A**

## Technical Features

| | |
|---|---|
| **Architecture** | |
| Type of pole | 1P |
| Number of protected poles | 1 |
| Curve | B |
| **Electric current** | |
| Rated current IN | 6 A |
| Rated residual operating current Idn | 30 mA |
| Rated current at -25°C | 7.79 A |
| Rated current at -20°C | 7.63 A |
| Rated current at -15°C | 7.46 A |
| Rated current at -10°C | 7.3 A |
| Rated current at -5°C | 7.14 A |
| Rated current at 0°C | 6.98 A |
| Rated current at 5°C | 6.81 A |
| Rated current at 10°C | 6.65 A |
| Rated current at 15°C | 6.49 A |
| Rated current at 20°C | 6.33 A |
| Rated current at 25°C | 6.16 A |
| Rated current at 30°C | 6 A |
| Rated current at 35°C | 5.98 A |
| Rated current at 40°C | 5.95 A |
| Rated current at 50°C | 5.9 A |
| Rated current at 55°C | 5.88 A |
| Rated current at 60°C | 5.85 A |
| Min./max. threshold value of the AC thermal operation | 1.13 - 1.45 A |
| Rated current at 45°C | 5.93 A |
| Rated current at 65°C | 5.83 A |
| Rated current at 70°C | 5.8 A |
| **Safety** | |
| Residual current type | A |
| Ingress Protection (IP) class | IP20 |
| **Main electrical attributes** | |
| Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 | 10 kA |
| **Voltage** | |
| Rated insulation voltage Ui | 250 V |
| Rated impulse withstand voltage Uimp | 4000 V |
| Rated operational voltage Ue | 230 - 240 V |
| Overvoltage category according to IEC 60947-1 | 3 |
| **Power** | |
| Power dissipation at IN | 2 W |
| **Frequency** | |
| Frequency | 50 - 60 Hz |
| **Use conditions** | |
| Max. altitude | 2000 m |
| Class of energy limitation $I^2t$ | 3 |
| **Endurance** | |
| Electric endurance in number of cycles | 2000 |
| Number of mechanical operations | 10000 |
| **Connection** | |
| Cross-section of top terminal with screws, for flexible conductors | 1 - 10 $mm^2$ |

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|---|---|
| **Connection** | |
| Cross-section of top terminal with screws, for rigid conductors | 1 - 16 mm² |
| **Capacity** | |
| Number of modules | 1 |
| **Installation, mounting** | |
| Type of top connection for modular devices | Screw terminal |
| Type of bottom connection for modular devices | biconnect |
| **Dimensions** | |
| Height | 115 mm |
| Width | 17.80 mm |
| Depth | 70 mm |
| **Use conditions** | |
| Operating temperature | -25 - 40 °C |
| Storage/transport temperature | -40 - 70 °C |
| **Connection** | |
| Cross-section of top and bottom terminal with screws, for flexible conductors | 1 - 16 mm² |
| Cross-section of top and bottom terminal with screws, for rigid conductors | 1 - 25 mm² |
| Cross-section of bottom terminal with screws, for flexible conductors | 1 - 16 mm² |
| Cross-section of bottom terminal with screws, for rigid conductors | 1 - 25 mm² |
| **Compatibility** | |
| Suitable for DIN Rail | Yes |
| **Sustainability** | |
| RoHS conform | Yes |