AEC445U

**RCBO 1M 1P 10kA C-45A 100mA A**

## Technical characteristics

### Architecture

| | |
|---|---|
| Type of pole | 1P |
| Curve | C |

### Electric current

| | |
|---|---|
| Rated current | 45 A |
| Rated residual operating current Idn | 100 mA |
| Rated current -25°C | 55.45 A |
| Rated current at -20°C | 54.50 A |
| Rated current -15°C | 53.55 A |
| Rated current -10°C | 52.60 A |
| Rated current -5°C | 51.65 A |
| Rated current at 0°C | 50.70 A |
| Rated current 5°C | 49.75 A |
| Rated current 10°C | 48.80 A |
| Rated current 15°C | 47.85 A |
| Rated current at 20°C | 46.90 A |
| Rated current 25°C | 45.95 A |
| Rated current 30°C | 45 A |
| Rated current 35°C | 44.50 A |
| Rated current at 40°C | 44 A |
| Rated current at 50°C | 43 A |
| Rated current 55°C | 42.50 A |
| Rated current 60°C | 42 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 Icn AC according to IEC 60898-1 | 10 kA |

### Voltage

| | |
|---|---|
| Rated insulation voltage Ui | 250 V |
| Rated impulse withstand voltage Uimp | 4,000 V |
| Rated operational voltage Ue | 230 - 240 V |

| | |
|---|---|
| Overvoltage category according to IEC 60947-1 | 3 |

**Power**

| | |
|---|---|
| Total power loss under IN | 12.90 W |

**Frequency**

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

**Use conditions**

| | |
|---|---|
| Max. Altitude | 2,000 m |
| Class of energy limitation $I^2t$ | 3 |
| Operating temperature | -25 - 40 °C |
| Storage/transport temperature | -40 - 70 °C |

**Endurance**

| | |
|---|---|
| Electric endurance in number of cycles | 2,000 |
| Number of mechanical operations | 10,000 |

**Connection**

| | |
|---|---|
| Cross-section of input with screws, for flexible conductors | 1 - 10 mm² |
| Cross-section of input with screws, for massive conductors | 1 - 16 mm² |
| Cross-section of input and output with screws, for flexible conductors | 1 - 16 mm² |
| Cross-section of input and output with screws, for massive conductors | 1 - 25 mm² |

**Installation, mounting**

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

**Capacity**

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

**Dimensions**

| | |
|---|---|
| Height | 115 mm |
| Width | 17.80 mm |
| Depth | 70 mm |

**Compatibility**

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