

# Product data sheet

Specifications



## Miniature circuit breaker (MCB), Multi9 C60N, 1P, 13A, B curve, 10kA (IEC/EN 60947-2)

M9F10113

### Main

|                           |                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Multi 9                                                                                                                                                                                                                               |
| Product name              | Multi 9 C60                                                                                                                                                                                                                           |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                             |
| Device short name         | C60N                                                                                                                                                                                                                                  |
| Device application        | Distribution                                                                                                                                                                                                                          |
| Poles description         | 1P                                                                                                                                                                                                                                    |
| Number of protected poles | 1                                                                                                                                                                                                                                     |
| [In] rated current        | 13 A at 50 °C conforming to EN/IEC 60947-2                                                                                                                                                                                            |
| Network type              | DC<br>AC                                                                                                                                                                                                                              |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                      |
| Curve code                | B                                                                                                                                                                                                                                     |
| Breaking capacity         | 15 kA Icu at <= 72 V DC conforming to EN/IEC 60947-2<br>10 kA Icu at 240 V AC 50/60 Hz between phase and neutral conforming to EN/IEC 60947-2<br>3 kA Icu at 415 V AC 50/60 Hz between phase and neutral conforming to EN/IEC 60947-2 |
| Utilisation category      | Category A conforming to EN/IEC 60947-2                                                                                                                                                                                               |
| Suitability for isolation | Yes conforming to EN/IEC 60947-2                                                                                                                                                                                                      |
| Standards                 | EN/IEC 60947-2                                                                                                                                                                                                                        |
| Product certifications    | EAC<br>CCC                                                                                                                                                                                                                            |

### Complementary

|                                        |                                                                                                                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                      | 50/60 Hz                                                                                                                                                                               |
| [Ue] rated operational voltage         | 240 V AC 50/60 Hz between phase and neutral<br>415 V AC 50/60 Hz between phase and neutral<br><= 72 V DC                                                                               |
| Magnetic tripping limit                | 4 x In +/- 20 % AC<br>5.7 x In +/- 20 % DC                                                                                                                                             |
| [Ics] rated service breaking capacity  | 7.5 kA 75 % conforming to EN/IEC 60947-2 - 240 V AC 50/60 Hz<br>2.25 kA 75 % conforming to EN/IEC 60947-2 - 415 V AC 50/60 Hz<br>15 kA 100 % conforming to EN/IEC 60947-2 - <= 72 V DC |
| [Ui] rated insulation voltage          | 500 V AC 50/60 Hz conforming to EN/IEC 60947-2                                                                                                                                         |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-2                                                                                                                                                      |
| Contact position indicator             | Yes                                                                                                                                                                                    |

|                          |                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type             | Toggle                                                                                                                                                                                        |
| Local signalling         | ON/OFF indication                                                                                                                                                                             |
| Mounting mode            | Clip-on                                                                                                                                                                                       |
| Mounting support         | DIN rail                                                                                                                                                                                      |
| 9 mm pitches             | 2                                                                                                                                                                                             |
| Height                   | 81 mm                                                                                                                                                                                         |
| Width                    | 18 mm                                                                                                                                                                                         |
| Depth                    | 72 mm                                                                                                                                                                                         |
| Product weight           | 0.12 kg                                                                                                                                                                                       |
| Colour                   | Grey                                                                                                                                                                                          |
| Mechanical durability    | 20000 cycles                                                                                                                                                                                  |
| Electrical durability    | 10000 cycles                                                                                                                                                                                  |
| Provision for padlocking | Padlockable                                                                                                                                                                                   |
| Connections - terminals  | Tunnel type terminal (top or bottom)1...25 mm² - rigid<br>Tunnel type terminal (top or bottom)1...25 mm² - flexible<br>Tunnel type terminal (top or bottom)1...25 mm² - flexible with ferrule |
| Wire stripping length    | 14 mm for top or bottom connection                                                                                                                                                            |
| Tightening torque        | 2 N.m top or bottom                                                                                                                                                                           |
| Earth-leakage protection | Separate block                                                                                                                                                                                |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Heat dissipation                      | 2.5 W at 240 V - 13 A                                                            |
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP40 (modular enclosure) conforming to IEC 60529 |
| Pollution degree                      | 3 conforming to EN/IEC 60947-2                                                   |
| Overvoltage category                  | IV                                                                               |
| Tropicalisation                       | 2 conforming to IEC 60068-1                                                      |
| Relative humidity                     | 95 % at 55 °C                                                                    |
| Ambient air temperature for operation | -30...70 °C                                                                      |
| Ambient air temperature for storage   | -40...80 °C                                                                      |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 7.5 cm   |
| Package 1 Width              | 1.8 cm   |
| Package 1 Length             | 8.5 cm   |
| Package 1 Weight             | 103.0 g  |
| Unit Type of Package 2       | BB1      |
| Number of Units in Package 2 | 12       |
| Package 2 Height             | 7.8 cm   |
| Package 2 Width              | 8.7 cm   |
| Package 2 Length             | 22.5 cm  |
| Package 2 Weight             | 1.289 kg |

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 144       |
| Package 3 Height             | 30.0 cm   |
| Package 3 Width              | 30.0 cm   |
| Package 3 Length             | 40.0 cm   |
| Package 3 Weight             | 15.952 kg |

Offer Sustainability

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                       |
| REACH Regulation            | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive           | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Mercury free                | Yes                                                                                                                         |
| RoHS exemption information  | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation       | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure    | <a href="#">Product Environmental Profile</a>                                                                               |
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Halogen content performance | Halogen free product                                                                                                        |

Recommended replacement(s)