

# Product data sheet

Specifications



## Miniature circuit breaker (MCB), Multi9 C60N, 3P, 2A, C curve, 10kA (IEC/EN 60947-2)

M9F11302

### 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         | 3P                                                                                                                                                                                                                                                                                             |
| Number of protected poles | 3                                                                                                                                                                                                                                                                                              |
| [In] rated current        | 2 A at 50 °C conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                      |
| Network type              | AC<br>DC                                                                                                                                                                                                                                                                                       |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                               |
| Curve code                | C                                                                                                                                                                                                                                                                                              |
| Breaking capacity         | 30 kA Icu at <= 125 V DC conforming to EN/IEC 60947-2<br>10 kA Icu at 415 V AC 50/60 Hz between phases conforming to EN/IEC 60947-2<br>20 kA Icu at 240 V AC 50/60 Hz between phases conforming to EN/IEC 60947-2<br>6 kA Icu at 440 V AC 50/60 Hz between phases 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>KC<br>CCC                                                                                                                                                                                                                                                                               |

### Complementary

|                                       |                                                                                                                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                     | 50/60 Hz                                                                                                                                                                                                                                              |
| [Ue] rated operational voltage        | 240 V AC 50/60 Hz between phases<br>415 V AC 50/60 Hz between phases<br>440 V AC 50/60 Hz between phases<br><= 125 V DC                                                                                                                               |
| Magnetic tripping limit               | 8.5 x In +/- 20 % AC<br>12 x In +/- 20 % DC                                                                                                                                                                                                           |
| [Ics] rated service breaking capacity | 7.5 kA 75 % conforming to EN/IEC 60947-2 - 415 V AC 50/60 Hz<br>16 kA 75 % conforming to EN/IEC 60947-2 - 240 V AC 50/60 Hz<br>4.5 kA 75 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz<br>30 kA 100 % conforming to EN/IEC 60947-2 - <= 125 V DC |
| Limitation class                      | 3                                                                                                                                                                                                                                                     |

|                                               |                                                                                                                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Ui] rated insulation voltage</b>          | 500 V AC 50/60 Hz conforming to EN/IEC 60947-2                                                                                                                                                |
| <b>[Uimp] rated impulse withstand voltage</b> | 6 kV conforming to EN/IEC 60947-2                                                                                                                                                             |
| <b>Contact position indicator</b>             | Yes                                                                                                                                                                                           |
| <b>Control type</b>                           | Toggle                                                                                                                                                                                        |
| <b>Local signalling</b>                       | ON/OFF indication                                                                                                                                                                             |
| <b>Mounting mode</b>                          | Clip-on                                                                                                                                                                                       |
| <b>Mounting support</b>                       | DIN rail                                                                                                                                                                                      |
| <b>9 mm pitches</b>                           | 6                                                                                                                                                                                             |
| <b>Height</b>                                 | 81 mm                                                                                                                                                                                         |
| <b>Width</b>                                  | 54 mm                                                                                                                                                                                         |
| <b>Depth</b>                                  | 72 mm                                                                                                                                                                                         |
| <b>Product weight</b>                         | 0.36 kg                                                                                                                                                                                       |
| <b>Colour</b>                                 | Grey                                                                                                                                                                                          |
| <b>Mechanical durability</b>                  | 20000 cycles                                                                                                                                                                                  |
| <b>Electrical durability</b>                  | 10000 cycles                                                                                                                                                                                  |
| <b>Provision for padlocking</b>               | Padlockable                                                                                                                                                                                   |
| <b>Connections - terminals</b>                | 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 |
| <b>Wire stripping length</b>                  | 14 mm for top or bottom connection                                                                                                                                                            |
| <b>Tightening torque</b>                      | 2 N.m top or bottom                                                                                                                                                                           |
| <b>Earth-leakage protection</b>               | Separate block                                                                                                                                                                                |

## Environment

|                                              |                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------|
| <b>Heat dissipation</b>                      | 7.8 W at 415 V - 2 A                                                             |
| <b>IP degree of protection</b>               | IP20 conforming to IEC 60529<br>IP40 (modular enclosure) conforming to IEC 60529 |
| <b>Pollution degree</b>                      | 3 conforming to EN/IEC 60947-2                                                   |
| <b>Overvoltage category</b>                  | IV                                                                               |
| <b>Tropicalisation</b>                       | 2 conforming to IEC 60068-1                                                      |
| <b>Relative humidity</b>                     | 95 % at 55 °C                                                                    |
| <b>Ambient air temperature for operation</b> | -30...70 °C                                                                      |
| <b>Ambient air temperature for storage</b>   | -40...80 °C                                                                      |

## Packing Units

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type of Package 1</b>       | PCE    |
| <b>Number of Units in Package 1</b> | 1      |
| <b>Package 1 Height</b>             | 7.5 cm |
| <b>Package 1 Width</b>              | 5.4 cm |
| <b>Package 1 Length</b>             | 8.5 cm |
| <b>Package 1 Weight</b>             | 322 g  |
| <b>Unit Type of Package 2</b>       | BB1    |
| <b>Number of Units in Package 2</b> | 4      |

|                              |           |
|------------------------------|-----------|
| Package 2 Height             | 7.8 cm    |
| Package 2 Width              | 8.7 cm    |
| Package 2 Length             | 22 cm     |
| Package 2 Weight             | 1.328 kg  |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 48        |
| Package 3 Height             | 30 cm     |
| Package 3 Width              | 30 cm     |
| Package 3 Length             | 40 cm     |
| Package 3 Weight             | 16.418 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)