

# Product data sheet

Specifications



Miniature circuit breaker (MCB),  
Multi9 C60H-DC, 1P, 13A, C  
curve, 5kA (UL 1077), 6kA (IEC/EN  
60947-2)

M9U21113

## Main

|                           |                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Multi 9                                                                                                                                                                                                                                                                                                                                                               |
| Product name              | Multi 9 C60H-DC                                                                                                                                                                                                                                                                                                                                                       |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                                                             |
| Device short name         | C60H-DC                                                                                                                                                                                                                                                                                                                                                               |
| Device application        | Distribution                                                                                                                                                                                                                                                                                                                                                          |
| Poles description         | 1P                                                                                                                                                                                                                                                                                                                                                                    |
| Number of protected poles | 1                                                                                                                                                                                                                                                                                                                                                                     |
| [In] rated current        | 13 A at 25 °C conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                            |
| Network type              | DC                                                                                                                                                                                                                                                                                                                                                                    |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                      |
| Curve code                | C                                                                                                                                                                                                                                                                                                                                                                     |
| Breaking capacity         | 10 kA Icu at 220 V DC conforming to EN/IEC 60947-2<br>6 kA Icu at 250 V DC conforming to EN/IEC 60947-2<br>20 kA Icu at 110 V DC conforming to EN/IEC 60947-2<br>5 kA AIR at 12...250 V DC conforming to UL 1077<br>10 kA Icu at 220 V DC conforming to GB 14048.2<br>6 kA Icu at 250 V DC conforming to GB 14048.2<br>20 kA Icu at 110 V DC conforming to GB 14048.2 |
| 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<br>GB 14048.2<br>UL 1077                                                                                                                                                                                                                                                                                                                               |
| Product certifications    | IEC<br>CCC<br>UR                                                                                                                                                                                                                                                                                                                                                      |

## Complementary

|                                       |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ue] rated operational voltage        | 250 V DC<br>110 V DC<br>220 V DC                                                                                                                                                                                                                                                                                         |
| Magnetic tripping limit               | 7...10 x In DC                                                                                                                                                                                                                                                                                                           |
| [Ics] rated service breaking capacity | 7.5 kA 75 % conforming to EN/IEC 60947-2 - 220 V DC<br>4.5 kA 75 % conforming to EN/IEC 60947-2 - 250 V DC<br>15 kA 75 % conforming to EN/IEC 60947-2 - 110 V DC<br>7.5 kA 75 % conforming to GB 14048.2 - 220 V DC<br>4.5 kA 75 % conforming to GB 14048.2 - 250 V DC<br>15 kA 75 % conforming to GB 14048.2 - 110 V DC |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 500 V DC 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                                  | 73 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product weight                         | 0.128 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Colour                                 | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mechanical durability                  | 20000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Electrical durability                  | 3000 cycles 250 V DC L/R = 2 ms<br>6000 cycles 250 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Provision for padlocking               | Padlockable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Connections - terminals                | Tunnel type terminal (top or bottom)1...25 mm² (AWG 18...AWG 4) - rigid stranded<br>Tunnel type terminal (top or bottom)1...16 mm² (AWG 18...AWG 6) - flexible<br>Tunnel type terminal (top or bottom)1...16 mm² (AWG 18...AWG 6) - flexible with ferrule<br>Tunnel type terminal (top or bottom) - 2 cable(s) 1...10 mm² (AWG 18...AWG 8) - rigid stranded<br>Tunnel type terminal (top or bottom) - 2 cable(s) 1...10 mm² (AWG 18...AWG 8) - flexible<br>Tunnel type terminal (top or bottom) - 2 cable(s) 1...10 mm² (AWG 18...AWG 8) - flexible with ferrule<br>Tunnel type terminal (top or bottom) - 3 cable(s) 1 mm² (AWG 18) - flexible stranded |
| Wire stripping length                  | 14 mm for top or bottom connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tightening torque                      | 2.5 N.m top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Earth-leakage protection               | Without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Heat dissipation                      | 2.5 W at 220 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                                                   |
| Tropicalisation                       | 2 conforming to IEC 60068-2<br>2 conforming to GB 14048.2                        |
| Relative humidity                     | 95 % at 55 °C                                                                    |
| Ambient air temperature for operation | -25...70 °C                                                                      |
| Ambient air temperature for storage   | -40...85 °C                                                                      |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 8.5 cm  |
| Package 1 Width              | 1.8 cm  |
| Package 1 Length             | 7.2 cm  |
| Package 1 Weight             | 111.0 g |
| Unit Type of Package 2       | BB1     |

|                              |           |
|------------------------------|-----------|
| Number of Units in Package 2 | 12        |
| Package 2 Height             | 8.2 cm    |
| Package 2 Width              | 9.0 cm    |
| Package 2 Length             | 22.5 cm   |
| Package 2 Weight             | 1.376 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             | 16.999 kg |

Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Recommended replacement(s)