

# Product data sheet

Specifications



## Multi9 - C60H-DC - MCB - 1P - 13 A - C Curve - 250 V - 5 kA

MGN61509

⚠ Discontinued on: Sep 30, 2022

⚠ Discontinued

### Main

|                           |                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Multi9                                                                                                                                                                                                                                                                                                                                                                |
| Product Name              | Multi9 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                                                                                                                                                                                                                                                                                                                                                         |
| Network Type              | DC                                                                                                                                                                                                                                                                                                                                                                    |
| Trip Unit Technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                      |
| Curve Code                | C                                                                                                                                                                                                                                                                                                                                                                     |
| Breaking Capacity         | 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<br>20 kA Icu at 110 V DC conforming to EN/IEC 60947-2<br>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>5 kA AIR at 12...250 V DC conforming to UL 1077 |
| Utilisation Category      | Category A conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                               |
| Suitability For Isolation | Yes conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                      |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ue] Rated Operational Voltage         | 12...250 V DC                                                                                                                                                                                                                                                                                                            |
| Magnetic Tripping Limit                | 8.5 x In +/- 20 % AC                                                                                                                                                                                                                                                                                                     |
| [Ics] Rated Service Breaking Capacity  | 15 kA 75 % conforming to GB 14048.2 - 110 V DC<br>15 kA 75 % conforming to EN/IEC 60947-2 - 110 V DC<br>7.5 kA 75 % conforming to EN/IEC 60947-2 - 250 V DC<br>4.5 kA 75 % conforming to EN/IEC 60947-2 - 220 V DC<br>7.5 kA 75 % conforming to GB 14048.2 - 250 V DC<br>4.5 kA 75 % conforming to GB 14048.2 - 220 V DC |
| Limitation Class                       | 3 conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                           |
| [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                                                                                                                                                                                                                                                                                                                   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local Signalling                                 | ON/OFF indication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mounting Mode                                    | Clip-on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting Support                                 | DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Comb Busbar And Distribution Block Compatibility | Top or bottom: standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 9 Mm Pitches                                     | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Height                                           | 81 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Width                                            | 18 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Depth                                            | 73 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net Weight                                       | 0.128 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Colour                                           | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mechanical Durability                            | 20000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Electrical Durability                            | 3000 cycles L/R = 2 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Provision For Padlocking                         | Padlockable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Locking Options Description                      | In position O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Standards                             | UL 1077<br>GB 14048.2<br>EN/IEC 60947-2                                          |
| Product Certifications                | UR<br>CCC<br>IEC                                                                 |
| 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 60068-2<br>2 conforming to GB 14048.2                        |
| Relative Humidity                     | 95 % at 55 °C                                                                    |
| Operating Altitude                    | 2000 m                                                                           |
| 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             | 1.8 cm    |
| Package 1 Width              | 7.3 cm    |
| Package 1 Length             | 8.5 cm    |
| Package 1 Weight             | 113.0 g   |
| Unit Type Of Package 2       | BB1       |
| Number Of Units In Package 2 | 12        |
| Package 2 Height             | 8.0 cm    |
| Package 2 Width              | 9.0 cm    |
| Package 2 Length             | 22.2 cm   |
| Package 2 Weight             | 1.526 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             | 18.799 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
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