

# Product datasheet

Specifications



## Multi9 - C60H-DC - MCB - 1P - 50 A - K Curve - 250 V - 6 kA

MGN61873

⚠ Discontinued on: Jan 23, 2021

⚠ 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        | 50 A at 50 °C conforming to EN/IEC 60947-2                                                                                                                    |
| Network type              | DC                                                                                                                                                            |
| Trip unit technology      | Thermal-magnetic                                                                                                                                              |
| Curve code                | K                                                                                                                                                             |
| Breaking capacity         | 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 |
| 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    | IEC                                                                                                                                                           |

### Complementary

|                                        |                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ue] rated operational voltage         | 250 V DC<br>110 V DC<br>220 V DC                                                                                                                                 |
| Magnetic tripping limit                | 12 x In +/- 20 % DC                                                                                                                                              |
| [Ics] rated service breaking capacity  | 15 kA 75 % conforming to EN/IEC 60947-2 - 110 V DC<br>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 |
| [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                                                                                                                                                          |

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

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support         | DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9 mm pitches             | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Height                   | 81 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Width                    | 18 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Depth                    | 73 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product weight           | 0.142 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Colour                   | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mechanical durability    | 20000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Electrical durability    | 3000 cycles L/R = 2 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Provision for padlocking | Padlockable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Connections - terminals  | Tunnel type terminal (top or bottom)1...35 mm² (AWG 18...AWG 2) - rigid stranded<br>Tunnel type terminal (top or bottom)1...25 mm² (AWG 18...AWG 4) - flexible<br>Tunnel type terminal (top or bottom)1...25 mm² (AWG 18...AWG 4) - flexible with ferrule<br>Tunnel type terminal (top or bottom) - 2 cable(s) 1...16 mm² (AWG 18...AWG 6) - rigid stranded<br>Tunnel type terminal (top or bottom) - 2 cable(s) 1...16 mm² (AWG 18...AWG 6) - flexible<br>Tunnel type terminal (top or bottom) - 2 cable(s) 1...16 mm² (AWG 18...AWG 6) - flexible with ferrule<br>Tunnel type terminal (top or bottom) - 3 cable(s) 4 mm² (AWG 6) - flexible stranded |
| Wire stripping length    | 14 mm for top or bottom connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tightening torque        | 3.5 N.m top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Earth-leakage protection | Without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP40 (modular enclosure) conforming to IEC 60529 |
| Pollution degree                      | 3 conforming to EN 60947-2                                                       |
| Tropicalisation                       | 2 conforming to IEC 60068-2                                                      |
| 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             | 7.1 cm |
| Package 1 Width              | 1.8 cm |
| Package 1 Length             | 8.5 cm |
| Package 1 Weight             | 123 g  |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEEE Label               |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |