# Product data sheet

Specifications



## Miniature circuit breaker (MCB), Multi9 C60SP, 1P, 20A, C curve, 10kA (UL1077), 10kA (IEC/EN 60947-2)

M9F22120

**Product availability: Stock - Normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range** | Multi9 |
| **Product name** | Multi9 C60 |
| **Product or Component Type** | Miniature circuit-breaker |
| **Device short name** | C60SP |
| **Device Application** | Distribution |
| **Poles description** | 1P |
| **Number of protected poles** | 1 |
| **Line Rated Current** | 20 A 77 °F (25 °C) EN/IEC 60947-2 |
| **Network type** | DC<br>AC |
| **Trip unit technology** | Thermal-magnetic |
| **Curve code** | C |
| **Breaking capacity** | 10 kA AIR 277 V AC UL 1077<br>14 kA AIR 240 V AC UL 1077<br>14 kA AIR 120 V AC UL 1077<br>10 kA AIR 65 V DC UL 1077<br>10 kA AIR 277 V AC CSA C22.2 No 235<br>14 kA AIR 240 V AC CSA C22.2 No 235<br>14 kA AIR 120 V AC CSA C22.2 No 235<br>10 kA AIR 65 V DC CSA C22.2 No 235<br>3 kA Icu 415 V AC EN/IEC 60947-2<br>10 kA Icu 240 V AC EN/IEC 60947-2<br>20 kA Icu 60 V DC EN/IEC 60947-2<br>3 kA Icu 415 V AC GB 14048.2<br>10 kA Icu 240 V AC GB 14048.2<br>20 kA Icu 60 V DC GB 14048.2 |
| **Standards** | EN/IEC 60947-2<br>GB 14048.2<br>UL 1077<br>CSA C22.2 No 235 |
| **Product certifications** | IEC<br>CCC<br>UR<br>CSA |

## Complementary

| | |
|---|---|
| **[Ue] rated operational voltage** | 240 V AC 50/60 Hz<br>415 V AC 50/60 Hz<br>60 V DC |
| **Magnetic tripping limit** | 8.5 x In +/- 20 % AC<br>12 x In +/- 20 % DC |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|---|---|
| **[Ics] rated service breaking capacity** | 2.25 kA 75 % EN/IEC 60947-2 - 415 V AC<br>7.5 kA 75 % EN/IEC 60947-2 - 240 V AC<br>20 kA 100 % EN/IEC 60947-2 - 60 V DC<br>2.25 kA 75 % GB 14048.2 - 415 V AC<br>7.5 kA 75 % GB 14048.2 - 240 V AC<br>20 kA 100 % GB 14048.2 - 60 V DC |
| **[Ui] rated insulation voltage** | 500 V AC EN/IEC 60947-2 |
| **[Uimp] rated impulse withstand voltage** | 6 kVEN/IEC 60947-2 |
| **Suitability for isolation** | Yes 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** | 3.2 in (81 mm) |
| **Width** | 0.7 in (18 mm) |
| **Depth** | 2.8 in (72 mm) |
| **color** | Gray |
| **Mechanical durability** | 20000 cycles |
| **Electrical durability** | 10000 cycles |
| **Provision for padlocking** | Padlockable |
| **Connections - terminals** | Tunnel type terminal top or bottom) 0.002…0.04 in² (1…25 mm²) AWG 18...AWG 8) - rigid<br>Tunnel type terminal top or bottom) 0.002…0.02 in² (1…16 mm²) AWG 18...AWG 8) - flexible with ferrule<br>Tunnel type terminal top or bottom) 0.002…0.02 in² (1…16 mm²) AWG 18...AWG 8) - flexible |
| **Wire stripping length** | 0.6 in (14 mm) for top or bottom connection |
| **Tightening torque** | 22.1 lbf.in (2.5 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 EN/IEC 60947-2 |
| **Tropicalisation** | 2 IEC 60068-1 |
| **Relative humidity** | 95 % 131 °F (55 °C) |
| **Operating altitude** | 0...6561.68 ft (0...2000 m) |
| **Ambient air temperature for operation** | -22…158 °F (-30…70 °C) |
| **Ambient Air Temperature for Storage** | -40…176 °F (-40…80 °C) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US10DE200948 |
| **Discount Schedule** | 0DE2 |
| **GTIN** | 3606481168177 |

| | |
|---|---|
| **Returnability** | Yes |
| **Country of origin** | FR |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 0.7 in (1.8 cm) |
| **Package 1 Width** | 3.0 in (7.5 cm) |
| **Package 1 Length** | 3.3 in (8.5 cm) |
| **Package weight(Lbs)** | 4.0 oz (113 g) |
| **Unit Type of Package 2** | BB1 |
| **Number of Units in Package 2** | 12 |
| **Package 2 Height** | 3.1 in (8 cm) |
| **Package 2 Width** | 3.5 in (8.8 cm) |
| **Package 2 Length** | 8.9 in (22.5 cm) |
| **Package 2 Weight** | 3.111 lb(US) (1.411 kg) |
| **Unit Type of Package 3** | S03 |
| **Number of Units in Package 3** | 144 |
| **Package 3 Height** | 11.8 in (30 cm) |
| **Package 3 Width** | 11.8 in (30 cm) |
| **Package 3 Length** | 15.7 in (40 cm) |
| **Package 3 Weight** | 38.621 lb(US) (17.518 kg) |

## 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 >

### Environmental footprint

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 13 |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant |
| SCIP Number | 40a4e715-7fff-45ff-88bf-38212f6a80a5 |
| REACh Regulation | REACh Declaration |
| California proposition 65 | WARNING: This product can expose you to chemicals including: DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

## Use Again

### Repack and remanufacture

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|---|---|
| Circularity Profile | No need of specific recycling operations |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |