

# M9U11110

Miniature circuit breaker (MCB), Multi9 C60H-DC, 1P, 10A, B curve, 5kA (UL 1077), 6kA (IEC/EN 60947-2)



## 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                                                                                                                                                                                                                                              |
| Line Rated Current        | 10 A 77 °F (25 °C) EN/IEC 60947-2                                                                                                                                                                                                              |
| Network type              | DC                                                                                                                                                                                                                                             |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                               |
| Curve code                | B                                                                                                                                                                                                                                              |
| Breaking capacity         | 10 KA Icu 220 V DC EN/IEC 60947-2<br>6 KA Icu 250 V DC EN/IEC 60947-2<br>20 KA Icu 110 V DC EN/IEC 60947-2<br>5 KA AIR 12...250 V DC UL 1077<br>10 KA Icu 220 V DC GB 14048.2<br>6 KA Icu 250 V DC GB 14048.2<br>20 KA Icu 110 V DC GB 14048.2 |
| Utilisation category      | Category A EN/IEC 60947-2                                                                                                                                                                                                                      |
| Suitability for isolation | Yes 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                | 3...7 x In DC                                                                                                                                                                                                                        |
| [Ics] rated service breaking capacity  | 7.5 KA 75 % EN/IEC 60947-2 - 220 V DC<br>4.5 KA 75 % EN/IEC 60947-2 - 250 V DC<br>15 KA 75 % EN/IEC 60947-2 - 110 V DC<br>7.5 KA 75 % GB 14048.2 - 220 V DC<br>4.5 KA 75 % GB 14048.2 - 250 V DC<br>15 KA 75 % GB 14048.2 - 110 V DC |
| [Ui] rated insulation voltage          | 500 V DC EN/IEC 60947-2                                                                                                                                                                                                              |
| [Uimp] rated impulse withstand voltage | 6 kVEN/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                                 | 3.19 in (81 mm)                                                                                                                                                                                                                      |
| Width                                  | 0.71 in (18 mm)                                                                                                                                                                                                                      |
| Depth                                  | 2.87 in (73 mm)                                                                                                                                                                                                                      |
| Net Weight                             | 0.28 lb(US) (0.128 kg)                                                                                                                                                                                                               |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Color                    | Gray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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) 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) AWG 18...AWG 4) - rigid stranded<br>Tunnel type terminal top or bottom) 0.00...0.02 in <sup>2</sup> (1...16 mm <sup>2</sup> ) AWG 18...AWG 6) - flexible<br>Tunnel type terminal top or bottom) 0.00...0.02 in <sup>2</sup> (1...16 mm <sup>2</sup> ) AWG 18...AWG 6) - flexible with ferrule<br>Tunnel type terminal top or bottom) - 2 0.00...0.02 in <sup>2</sup> (1...10 mm <sup>2</sup> ) AWG 18...AWG 8) - rigid stranded<br>Tunnel type terminal top or bottom) - 2 0.00...0.02 in <sup>2</sup> (1...10 mm <sup>2</sup> ) AWG 18...AWG 8) - flexible<br>Tunnel type terminal top or bottom) - 2 0.00...0.02 in <sup>2</sup> (1...10 mm <sup>2</sup> ) AWG 18...AWG 8) - flexible with ferrule<br>Tunnel type terminal top or bottom) - 3 0.00 in <sup>2</sup> (1 mm <sup>2</sup> ) AWG 18) - flexible stranded |
| Wire stripping length    | 0.55 in (14 mm) top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tightening torque        | 22.13 lbf.in (2.5 N.m) top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Earth-leakage protection | Without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Heat dissipation                      | 1.8 W 220 V - 10 A                                                               |
| 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 60068-2<br>2 GB 14048.2                                                    |
| Relative humidity                     | 95 % 131 °F (55 °C)                                                              |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)                                                       |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)                                                       |

## Ordering and shipping details

|                   |                                |
|-------------------|--------------------------------|
| Category          | 00948-M9 GEN 2 CB UL1077 / IEC |
| Discount Schedule | DE2                            |
| GTIN              | 3606480741388                  |
| Returnability     | No                             |
| Country of origin | CN                             |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 0.31 in (0.8 cm)       |
| Package 1 Width              | 2.95 in (7.5 cm)       |
| Package 1 Length             | 3.35 in (8.5 cm)       |
| Package 1 Weight             | 3.88 oz (110.0 g)      |
| Unit Type of Package 2       | BB1                    |
| Number of Units in Package 2 | 12                     |
| Package 2 Height             | 3.15 in (8.0 cm)       |
| Package 2 Width              | 3.54 in (9.0 cm)       |
| Package 2 Length             | 8.86 in (22.5 cm)      |
| Package 2 Weight             | 3.01 lb(US) (1.365 kg) |
| Unit Type of Package 3       | S03                    |
| Number of Units in Package 3 | 144                    |
| Package 3 Height             | 11.81 in (30.0 cm)     |
| Package 3 Width              | 11.81 in (30.0 cm)     |
| Package 3 Length             | 15.75 in (40.0 cm)     |
| Package 3 Weight             | 37.04 lb(US) (16.8 kg) |

## Offer Sustainability

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