

# M9U21216

Miniature circuit breaker (MCB), Multi9 C60H-DC, 2P, 16A, C curve, 5kA (UL1077), 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         | 2P                                                                                                                                                                                                                                             |
| Number of protected poles | 2                                                                                                                                                                                                                                              |
| Line Rated Current        | 16 A 77 °F (25 °C) EN/IEC 60947-2                                                                                                                                                                                                              |
| Network type              | DC                                                                                                                                                                                                                                             |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                               |
| Curve code                | C                                                                                                                                                                                                                                              |
| Breaking capacity         | 20 KA Icu 220 V DC EN/IEC 60947-2<br>10 KA Icu 440 V DC EN/IEC 60947-2<br>6 KA Icu 500 V DC EN/IEC 60947-2<br>5 KA AIR 12...500 V DC UL 1077<br>20 KA Icu 220 V DC GB 14048.2<br>10 KA Icu 440 V DC GB 14048.2<br>6 KA Icu 500 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[RETURN]CCC[RETURN]UR                                                                                                                                                                                                                       |

## Complementary

|                                        |                                                                                                                                                                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ue] rated operational voltage         | 220 V DC<br>440 V DC<br>500 V DC                                                                                                                                                                                                     |
| Magnetic tripping limit                | 7...10 x In DC                                                                                                                                                                                                                       |
| [Ics] rated service breaking capacity  | 7.5 KA 75 % EN/IEC 60947-2 - 440 V DC<br>4.5 KA 75 % EN/IEC 60947-2 - 500 V DC<br>15 KA 75 % EN/IEC 60947-2 - 220 V DC<br>7.5 KA 75 % GB 14048.2 - 440 V DC<br>4.5 KA 75 % GB 14048.2 - 500 V DC<br>15 KA 75 % GB 14048.2 - 220 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                           | 4                                                                                                                                                                                                                                    |
| Height                                 | 3.2 in (81 mm)                                                                                                                                                                                                                       |
| Width                                  | 1.4 in (36 mm)                                                                                                                                                                                                                       |
| Depth                                  | 2.9 in (73 mm)                                                                                                                                                                                                                       |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Net Weight               | 0.282 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) 0.002...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) 0.002...0.02 in <sup>2</sup> (1...16 mm <sup>2</sup> ) AWG 18...AWG 6) - flexible<br>Tunnel type terminal top or bottom) 0.002...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 0.002...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 0.002...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 0.002...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 0.002 in <sup>2</sup> (1 mm <sup>2</sup> ) AWG 18) - flexible stranded |
| 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

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Heat dissipation                      | 5 W 440 V - 16 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          | US10DE200948  |
| Discount Schedule | 0DE2          |
| GTIN              | 3606480741807 |
| Returnability     | Yes           |
| Country of origin | CN            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 1.378 in (3.500 cm)     |
| Package 1 Width              | 2.953 in (7.500 cm)     |
| Package 1 Length             | 3.346 in (8.500 cm)     |
| Package 1 Weight             | 7.972 oz (226.000 g)    |
| Unit Type of Package 2       | BB1                     |
| Number of Units in Package 2 | 6                       |
| Package 2 Height             | 2.953 in (7.500 cm)     |
| Package 2 Width              | 3.543 in (9.000 cm)     |
| Package 2 Length             | 8.661 in (22.000 cm)    |
| Package 2 Weight             | 3.078 lb(US) (1.396 kg) |
| Unit Type of Package 3       | S03                     |
| Number of Units in Package 3 | 72                      |
| Package 3 Height             | 11.811 in (30.000 cm)   |
| Package 3 Width              | 11.811 in (30.000 cm)   |

|                  |                           |
|------------------|---------------------------|
| Package 3 Length | 15.748 in (40.000 cm)     |
| Package 3 Weight | 37.858 lb(US) (17.172 kg) |

## Offer Sustainability

|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                        |
| 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>                                                                                                          |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                |
| Circularity Profile        | No need of specific recycling operations                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |