Product datasheet

Specification





Miniature circuit breaker (MCB), Multi9 C60SP, 1P, 50A, B curve, 10kA (UL1077), 10kA (IEC/EN 60947-2)

M9F21150

Main

| 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 | |
| [In] rated current | 50 A at 25 °C conforming to EN/IEC 60947-2 | |
| Network type DC AC | | |
| Trip unit technology Thermal-magnetic | | |
| Curve code | В | |
| Breaking capacity | 10 kA AIR at 65 V DC conforming to UL 1077 10 kA AIR at 65 V DC conforming to CSA C22.2 No 235 3 kA Icu at 415 V AC conforming to EN/IEC 60947-2 10 kA Icu at 240 V AC conforming to EN/IEC 60947-2 20 kA Icu at 60 V DC conforming to EN/IEC 60947-2 3 kA Icu at 415 V AC conforming to GB 14048.2 10 kA Icu at 240 V AC conforming to GB 14048.2 20 kA Icu at 60 V DC conforming to GB 14048.2 5 kA AIR at 277 V AC conforming to UL 1077 10 kA AIR at 240 V AC conforming to UL 1077 10 kA AIR at 277 V AC conforming to UL 1077 5 kA AIR at 277 V AC conforming to UL 2077 5 kA AIR at 277 V AC conforming to UL 3077 5 kA AIR at 277 V AC conforming to CSA C22.2 No 235 10 kA AIR at 120 V AC conforming to CSA C22.2 No 235 | |
| Suitability for isolation | Yes conforming to EN/IEC 60947-2 | |
| Standards | EN/IEC 60947-2 GB 14048.2 UL 1077 CSA C22.2 No 235 | |
| Product certifications | IEC CCC UR CSA | |

Complementary

| [Ue] rated operational voltage | 240 V AC 50/60 Hz 415 V AC 50/60 Hz 60 V DC |
|--------------------------------|---|
| Magnetic tripping limit | 4 x ln +/- 20 % AC 5.7 x ln +/- 20 % DC |

| [Ics] rated service breaking capacity | 2.25 kA 75 % conforming to EN/IEC 60947-2 - 415 V AC 7.5 kA 75 % conforming to EN/IEC 60947-2 - 240 V AC 20 kA 100 % conforming to EN/IEC 60947-2 - 60 V DC 2.25 kA 75 % conforming to GB 14048.2 - 415 V AC 7.5 kA 75 % conforming to GB 14048.2 - 240 V AC 20 kA 100 % conforming to GB 14048.2 - 60 V DC |
|--|---|
| [Ui] rated insulation voltage | 500 V AC 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 | |
| mounting support | DIN rail |
| 9 mm pitches | 2 |
| Height 81 mm | |
| Width 18 mm | |
| Depth | 72 mm |
| Colour | Grey |
| Mechanical durability | 20000 cycles |
| Electrical durability | 10000 cycles |
| Provision for padlocking | Padlockable |
| Connections - terminals | Tunnel type terminal (top or bottom)135 mm² (AWG 18AWG 2) - rigid Tunnel type terminal (top or bottom)125 mm² (AWG 18AWG 3) - flexible with ferrule Tunnel type terminal (top or bottom)125 mm² (AWG 18AWG 8) - flexible |
| 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 IP40 (modular enclosure) conforming to IEC 60529 |
|---------------------------------------|---|
| Pollution degree | 3 conforming to EN/IEC 60947-2 |
| Tropicalisation | 2 conforming to IEC 60068-1 |
| Relative humidity | 95 % at 55 °C |
| Operating altitude | 02000 m |
| Ambient air temperature for operation | -3070 °C |
| Ambient air temperature for storage | -4080 °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 | 7.5 cm |
| Package 1 Length | 8.5 cm |

| Package 1 Weight | 121.0 g |
|------------------------------|-----------|
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 8.0 cm |
| Package 2 Width | 8.5 cm |
| Package 2 Length | 22.5 cm |
| Package 2 Weight | 1.518 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 | 18.703 kg |



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Transparency RoHS/REACh

Well-being performance

| Mercury Free | |
|----------------------------|-----|
| Rohs Exemption Information | Yes |
| Halogen Free Product | |

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | No need of specific recycling operations |

27 Jun 2024