

Product data sheet

Characteristics

MX9A3216

Arc Fault Detection (AFDD+RCBO), MAX9, 1P +N, 16A, 30mA, C Curve, 6000A, A type, All-in-one



Main

| | |
|-------------------------------------|---|
| Range | MAX9 |
| Product or component type | Arc fault detection RCBO |
| Product specific application | Fire prevention by arc detection |
| Standards | EN/IEC 62606 AS/NZS 61009.1 |
| Poles description | 1P + N |
| [In] rated current | 16 A at 30 °C |
| Number of protected poles | 1 |
| Curve code | C |
| Breaking capacity | 6000 A Icn at 240 V AC 50 Hz conforming to AS/NZS 61009.1 |
| Earthing system | TN-S TT IT |
| Earth-leakage sensitivity | 30 mA |
| Network type | AC |
| Earth-leakage protection time delay | Instantaneous |
| Earth-leakage protection class | Type A |
| Neutral position | Left |
| Suitability for isolation | Yes |
| Trip unit technology | Thermal-magnetic |
| Earth-leakage protection | Integrated |

Complementary

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|--|---|
| Network frequency | 50 Hz |
| [Ue] rated operational voltage | 240 V AC 50 Hz conforming to AS/NZS 61009.1 |
| Device location in system | Outgoer |
| Magnetic tripping limit | 5...10 x In |
| [Ics] rated service breaking capacity | 6000 A at 240 V AC 50 Hz conforming to AS/NZS 61009.1 |
| Rated breaking and making capacity | 500 A |
| Limitation class | 3 |
| [Ui] rated insulation voltage | 440 V AC 50 Hz |
| Threshold tripping voltage | 275 V |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to AS/NZS 61009.1 |
| Contact position indicator | Yes |
| Control type | Toggle |
| Local signalling | ON, OFF, fault trip |
| Mounting mode | Clip-on |
| Mounting support | DIN rail |
| Colour | White (RAL 9003) |

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| Mechanical durability | 20000 cycles |
| Electrical durability | 10000 cycles AC 50 Hz conforming to IEC 61009 |
| Overvoltage category | III |
| Locking options description | By padlocks |
| Connections - terminals | Tunnel type terminal top or bottom 1...10 mm ² flexible Tunnel type terminal top or bottom 1...16 mm ² rigid |
| Wire stripping length | 14 mm for top or bottom connection |
| Tightening torque | 2 N.m top or bottom |
| Comb busbar and distribution block compatibility | Top comb busbar: YES |
| 9 mm pitches | 4 |
| Height | 91 mm |
| Width | 36 mm |
| Depth | 75 mm |
| Product weight | 237 g |
| Temperature derating table | -25 °C (19.6 A) -20 °C (19.3 A) -15 °C (19 A) -10 °C (18.7 A) -5 °C (18.4 A) 0 °C (18.1 A) 5 °C (17.7 A) 10 °C (17.4 A) 15 °C (17.1 A) 20 °C (16.7 A) 25 °C (16.4 A) 30 °C (16 A) 35 °C (15.6 A) 40 °C (15.3 A) 45 °C (14.9 A) 50 °C (14.5 A) 55 °C (14.1 A) 60 °C (13.6 A) 65 °C (13.2 A) 70 °C (12.7 A) |
| Grid distance | 35 mm |

Environment

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|---------------------------------------|--|
| Heat dissipation | 3.5 W at 240 V - 16 A |
| IP degree of protection | IP20 |
| Pollution degree | 2 |
| Tropicalisation | Severity B conforming to IEC 60068-2-30 for 28 d |
| Relative humidity | 95 % at 55 °C |
| Operating altitude | 0...2000 m |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Quality labels | RCM |

Packing Units

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 234 g |
| Package 1 Height | 8.4 cm |
| Package 1 width | 4.4 cm |
| Package 1 Length | 10.4 cm |
| Unit Type of Package 2 | CAR |
| Number of Units in Package 2 | 40 |
| Package 2 Weight | 9.86 kg |
| Package 2 Height | 20 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |