

## Product data sheet

### Characteristics

# MX9R3120

Residual current breaker with overcurrent protection (RCBO), MAX9, 1PN, 20A, 30mA, C Curve, 6000A, A type, SLIM



### Main

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Range                          | MAX9                                                        |
| Product or component type      | Residual current breaker with overcurrent protection (RCBO) |
| Poles description              | 1P + N                                                      |
| Number of protected poles      | 1                                                           |
| [In] rated current             | 20 A at 30 °C conforming to AS/NZS 61009.1                  |
| Network type                   | AC                                                          |
| Network frequency              | 50/60 Hz                                                    |
| [Ue] rated operational voltage | 240 V AC 50/60 Hz                                           |
| Curve code                     | C                                                           |
| Earth-leakage sensitivity      | 30 mA                                                       |
| Earth-leakage protection class | Type A                                                      |

### Complementary

|                                                  |                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Earth-leakage protection time delay              | Instantaneous                                                                                                                                                                                                                                                       |
| Breaking capacity                                | 6000 A Icn at 240 V AC 50/60 Hz                                                                                                                                                                                                                                     |
| Limitation class                                 | 3                                                                                                                                                                                                                                                                   |
| [Ui] rated insulation voltage                    | 440 V AC 50/60 Hz                                                                                                                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage           | 4 kV                                                                                                                                                                                                                                                                |
| 9 mm pitches                                     | 2                                                                                                                                                                                                                                                                   |
| Height                                           | 93 mm                                                                                                                                                                                                                                                               |
| Width                                            | 18 mm                                                                                                                                                                                                                                                               |
| Depth                                            | 73 mm                                                                                                                                                                                                                                                               |
| Net weight                                       | 136 g                                                                                                                                                                                                                                                               |
| Connections - terminals                          | Tunnel type terminal (top) - 1...16 mm <sup>2</sup> - rigid<br>Tunnel type terminal (top) - 1...10 mm <sup>2</sup> - flexible<br>Tunnel type terminal (bottom) - 1...10 mm <sup>2</sup> - rigid<br>Tunnel type terminal (bottom) - 1...6 mm <sup>2</sup> - flexible |
| Comb busbar and distribution block compatibility | YES                                                                                                                                                                                                                                                                 |

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature derating table | -25 °C ( 23.8 A )<br>-20 °C ( 23.5 A )<br>-15 °C ( 23.1 A )<br>-10 °C ( 22.8 A )<br>-5 °C ( 22.5 A )<br>0 °C ( 22.1 A )<br>5 °C ( 21.8 A )<br>10 °C ( 21.5 A )<br>15 °C ( 21.1 A )<br>20 °C ( 20.7 A )<br>25 °C ( 20.4 A )<br>30 °C ( 20 A )<br>35 °C ( 19.6 A )<br>40 °C ( 19.2 A )<br>45 °C ( 18.8 A )<br>50 °C ( 18.4 A )<br>55 °C ( 18 A )<br>60 °C ( 17.6 A )<br>65 °C ( 17.2 A )<br>70 °C ( 16.7 A ) |
| Grid distance              | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                      |

## Environment

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Standards                             | IEC 61009-2-2<br>EN/IEC 61009-1<br>AS/NZS 61009.1 |
| Quality labels                        | RCM                                               |
| IP degree of protection               | IP20                                              |
| Pollution degree                      | 2                                                 |
| Overvoltage category                  | III                                               |
| Ambient air temperature for operation | -25...70 °C                                       |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 142 g    |
| Package 1 Height             | 6.8 cm   |
| Package 1 width              | 9.8 cm   |
| Package 1 Length             | 2.2 cm   |
| Unit Type of Package 2       | BB1      |
| Number of Units in Package 2 | 12       |
| Package 2 Weight             | 1.704 kg |
| Package 2 Height             | 8.6 cm   |
| Package 2 width              | 24.4 cm  |
| Package 2 Length             | 10.3 cm  |
| Unit Type of Package 3       | CAR      |
| Number of Units in Package 3 | 60       |
| Package 3 Weight             | 9.02 kg  |
| Package 3 Height             | 20 cm    |
| Package 3 width              | 30 cm    |
| Package 3 Length             | 40 cm    |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |