

# Product datasheet

Specifications



## M9 N60N RCBO - 1P+N - 50A - C - 30mA - type AC

M9D116C50

### Main

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| Range                               | M9                                      |
| Product name                        | M9 N60N                                 |
| Product or component type           | RCCB with overcurrent protection (RCBO) |
| Device short name                   | N60N                                    |
| Device application                  | Distribution                            |
| Poles description                   | 1P+N                                    |
| Neutral position                    | Right                                   |
| Line rated current                  | 50 A                                    |
| Curve code                          | C                                       |
| Network type                        | AC                                      |
| Earth-leakage sensitivity           | 30 mA                                   |
| Earth-leakage protection time delay | Instantaneous                           |
| Earth-leakage protection class      | Type AC                                 |
| Standards                           | IEC/EN 61009-1                          |
| Product certifications              | CE                                      |

### Complementary

|                                          |                                                              |
|------------------------------------------|--------------------------------------------------------------|
| Network frequency                        | 50/60 Hz                                                     |
| [Ue] rated operational voltage           | 6000 A Icn at 230 V AC 50/60 Hz conforming to IEC/EN 61009-1 |
| Magnetic tripping limit                  | 6000 A at 230 V AC 50/60 Hz conforming to EN/IEC 61009-1     |
| Residual current tripping technology     | Voltage independent                                          |
| Breaking capacity                        | 6000 A Icn at 230 V AC 50/60 Hz conforming to IEC/EN 61009-1 |
| [Ics] rated service breaking capacity    | 4500 A 75% x Icn conforming to IEC/EN 61009-1                |
| [IΔm] Rated breaking and making capacity | 6000 A at 230 V AC 50/60 Hz conforming to EN/IEC 61009-1     |
| Limitation class                         | 3 conforming to IEC/EN 61009-1                               |
| [Ui] rated insulation voltage            | 440 V AC 50 Hz conforming to EN/IEC 60947-2                  |
| [Uimp] rated impulse withstand voltage   | 6 kV conforming to IEC/EN 60947-2                            |
| Surge current                            | 250 A                                                        |

# Product datasheet

## Specifications

|                            |                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact position indicator | Yes                                                                                                                                                         |
| Control type               | Toggle                                                                                                                                                      |
| Local signalling           | ON/OFF, fault trip                                                                                                                                          |
| Mounting mode              | Clip-on                                                                                                                                                     |
| Mounting support           | DIN rail                                                                                                                                                    |
| 9 mm pitches               | 4                                                                                                                                                           |
| Height                     | 81 mm                                                                                                                                                       |
| Width                      | 36 mm                                                                                                                                                       |
| Depth                      | 72 mm                                                                                                                                                       |
| Product weight             | 195 g                                                                                                                                                       |
| Color                      | Grey                                                                                                                                                        |
| Mechanical durability      | 20,000 cycles                                                                                                                                               |
| Electrical durability      | 10,000 cycles                                                                                                                                               |
| Locking options            | Padlocking device                                                                                                                                           |
| Connections - terminals    | Tunnel type terminal top or bottom 1 to 16 mm <sup>2</sup> - rigid<br>Tunnel type terminal top or bottom 1 to 10 mm <sup>2</sup> - flexible or with ferrule |
| Wire stripping length      | 14 mm top or bottom connection                                                                                                                              |
| Tightening torque          | 2.5 N.m top or bottom                                                                                                                                       |
| Earth-leakage protection   | Integrated                                                                                                                                                  |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP40 (modular enclosure) conforming to IEC 60529 |
| Pollution degree                      | 3 conforming to IEC/EN 60947-2                                                   |
| Electromagnetic compatibility         | 8/20 µs impulse withstand, 250 A                                                 |
| Tropicalization                       | 2 conforming to IEC 60068-1                                                      |
| Relative humidity                     | 95% at 55 °C                                                                     |
| Ambient air temperature for operation | -25...40 °C                                                                      |
| Ambient air temperature for storage   | -30...70 °C                                                                      |

## Order and shipping

|                              |               |
|------------------------------|---------------|
| GTIN                         | 6267377100137 |
| Unit type of package 1       | SA7           |
| Number of units in package 1 | 1             |
| Package 1 height             | 8.5 cm        |
| Package 1 width              | 3.8 cm        |
| Package 1 length             | 9.5 cm        |
| Package 1 weight             | 215 gr        |
| Unit type of package 2       | S02b          |
| Number of units in package 2 | 60            |

# Product datasheet

## Specifications

|                  |       |
|------------------|-------|
| Package 2 height | 20 cm |
| Package 2 width  | 32 cm |
| Package 2 length | 40 cm |
| Package 2 weight | 14 kg |

## Contractual warranty

24 months