

# Product datasheet

Specifications



24085-SE

## M9 - C60N - MCB - 3P - 2A - B Curve

M9F10302

### Main

|                           |                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | M9                                                                                                                                                                                                                                                                                                     |
| Product name              | M9 C60                                                                                                                                                                                                                                                                                                 |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                              |
| Device short name         | C60N                                                                                                                                                                                                                                                                                                   |
| Device application        | Distribution                                                                                                                                                                                                                                                                                           |
| Poles description         | 3P                                                                                                                                                                                                                                                                                                     |
| Number of protected poles | 3                                                                                                                                                                                                                                                                                                      |
| [In] rated current        | 2A at 30°C conforming to IEC 60898-1                                                                                                                                                                                                                                                                   |
| Network type              | AC<br>DC                                                                                                                                                                                                                                                                                               |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                       |
| Curve code                | B                                                                                                                                                                                                                                                                                                      |
| Breaking capacity         | 30 kA Icu at $\leq 125$ V DC conforming to IEC/EN 60947-2<br>20 kA Icu at 230...240 V AC conforming to IEC/EN 60947-2<br>10 kA Icu at 400...415 V AC conforming to IEC/EN 60947-2<br>6 kA Icu at 440 V AC conforming to IEC/EN 60947-2<br>6000 A Icn at 400 V AC 50/60 Hz conforming to IEC/EN 60898-1 |
| Utilization category      | Category A conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                |
| Suitability for isolation | Yes. Conforming to IEC 60947-2                                                                                                                                                                                                                                                                         |
| Standards                 | IEC 60947-2<br>IEC 60898-1                                                                                                                                                                                                                                                                             |

### Complementary

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Network frequency              | 50/60 Hz                                                                                                  |
| [Ue] rated operational voltage | $\leq 125$ V DC<br>230...240 V AC 50/60 Hz<br>400 V AC 50/60 Hz<br>415 V AC 50/60 Hz<br>440 V AC 50/60 Hz |

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|                                        |                                                                                                                                                                                                                                                                                                                                                |         |                         |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------|
| Limitation class                       | 3 conforming to IEC 60898                                                                                                                                                                                                                                                                                                                      |         |                         |
| [Ui] rated insulation voltage          | 500 V AC 50/60 Hz conforming to IEC/EN 60947-2                                                                                                                                                                                                                                                                                                 |         |                         |
| Limitation class                       | IEC 60898-1:                                                                                                                                                                                                                                                                                                                                   |         | 3...5 x In              |
|                                        | IEC 60947-2:                                                                                                                                                                                                                                                                                                                                   | in a.c. | 4 x In ( $\pm 20\%$ )   |
|                                        |                                                                                                                                                                                                                                                                                                                                                | in d.c. | 5.7 x In ( $\pm 20\%$ ) |
| [Ics] rated service breaking capacity  | 30 kA 100% of Icu at $\leq 125$ V DC conforming to IEC/EN 60947-2<br>15 kA 75% of Icu at 230...240 V AC conforming to IEC/EN 60947-2<br>7.5 kA 75% of Icu at 400...415 V AC conforming to IEC/EN 60947-2<br>4.5 kA 75% of Icu at 440 V AC conforming to IEC/EN 60947-2<br>6000 A 100% of Icn at 400 V AC 50/60 Hz conforming to IEC/EN 60898-1 |         |                         |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC/EN 60947-2                                                                                                                                                                                                                                                                                                              |         |                         |
| Contact position indicator             | Yes                                                                                                                                                                                                                                                                                                                                            |         |                         |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                                                         |         |                         |
| Local signalling                       | ON/OFF indication                                                                                                                                                                                                                                                                                                                              |         |                         |
| Mounting mode                          | Clip-on                                                                                                                                                                                                                                                                                                                                        |         |                         |
| Mounting support                       | 35 mm symmetrical DIN rail                                                                                                                                                                                                                                                                                                                     |         |                         |
| 9 mm pitches                           | 6                                                                                                                                                                                                                                                                                                                                              |         |                         |
| Height                                 | 81 mm                                                                                                                                                                                                                                                                                                                                          |         |                         |
| Width                                  | 54 mm                                                                                                                                                                                                                                                                                                                                          |         |                         |
| Depth                                  | 73 mm                                                                                                                                                                                                                                                                                                                                          |         |                         |
| Product weight                         | 360 gr                                                                                                                                                                                                                                                                                                                                         |         |                         |
| Color                                  | Grey                                                                                                                                                                                                                                                                                                                                           |         |                         |
| Mechanical durability                  | 20,000 cycles                                                                                                                                                                                                                                                                                                                                  |         |                         |
| Electrical durability                  | 10,000 cycles                                                                                                                                                                                                                                                                                                                                  |         |                         |
| Provision for padlocking               | Padlockable                                                                                                                                                                                                                                                                                                                                    |         |                         |
| Connections - terminals                | Tunnel type terminal (top or bottom) 1...10 mm <sup>2</sup> - rigid<br>Tunnel type terminal (top or bottom) 1...10 mm <sup>2</sup> - flexible<br>Tunnel type terminal (top or bottom) 1...10 mm <sup>2</sup> - flexible with ferrule                                                                                                           |         |                         |
| Wire stripping length                  | 14 mm top or bottom connection                                                                                                                                                                                                                                                                                                                 |         |                         |
| Tightening torque                      | 2.5 N.m top or bottom                                                                                                                                                                                                                                                                                                                          |         |                         |
| Earth-leakage protection               | Separate add-on block                                                                                                                                                                                                                                                                                                                          |         |                         |

## Environment

|                         |                                                                                  |
|-------------------------|----------------------------------------------------------------------------------|
| Heat dissipation        | 7.8 W at 415 V - 2 A                                                             |
| 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                                                   |
| Overvoltage category    | IV                                                                               |
| Tropicalization         | 2 conforming to IEC 60068-1                                                      |

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|                                       |              |
|---------------------------------------|--------------|
| Relative humidity                     | 95% at 55 °C |
| Ambient air temperature for operation | -30...70 °C  |
| Ambient air temperature for storage   | -40...80 °C  |

## Ordering and shipping details

|      |               |
|------|---------------|
| GTIN | 6267377140850 |
|------|---------------|

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit type of package 1       | BB1     |
| Number of units in package 1 | 4       |
| Package 1 height             | 7.8 cm  |
| Package 1 width              | 8.7 cm  |
| Package 1 length             | 22 cm   |
| Package 1 weight             | 1.5 kg  |
| Unit type of package 2       | GB1     |
| Number of units in package 2 | 40      |
| Package 2 height             | 31.5 cm |
| Package 2 width              | 26.5 cm |
| Package 2 length             | 28 cm   |
| Package 2 weight             | 16.5 kg |

## Contractual warranty

|           |          |
|-----------|----------|
| Guarantee | Lifetime |
|-----------|----------|