



### Main

|                           |   |
|---------------------------|---|
| Range of product          | C120  |
| Range                     | Acti 9  |
| Product name              | C120  |
| Product or component type | Miniature circuit-breaker   |
| Device short name         | C120N   |
| Device application        | Distribution  |
| Poles description         | 1P  |
| Number of protected poles | 1   |
| [In] rated current        | 80 A  |
| Network type              | AC<br>DC  |
| Trip unit technology      | Thermal-magnetic  |
| Curve code                | D   |
| Breaking capacity         | 15 kA Icu at 12 V DC conforming to EN/IEC 60947-2<br>15 kA Icu at 125 V DC conforming to EN/IEC 60947-2<br>10 kA Icu at <= 144 V DC conforming to EN/IEC 60947-2<br>10 kA Icu at 230...400 V AC 50/60 Hz conforming to EN/IEC 60947-2 |

### Complementary

|                                       |   |
|---------------------------------------|---|
| Network frequency                     | 50/60 Hz  |
| [Ue] rated operational voltage        | 125 V DC<br><= 144 V DC<br>12 V DC<br>230...400 V AC 50/60 Hz   |
| Magnetic tripping limit               | 12 x In +/- 20 %  |
| [Ics] rated service breaking capacity | 7.5 kA 75 % conforming to EN/IEC 60947-2 - 230...400 V AC 50/60 Hz<br>10 kA 100 % conforming to EN/IEC 60947-2 - 24/48 V DC<br>10 kA 100 % conforming to EN/IEC 60947-2 - 125 V DC<br>10 kA |
| Limitation class                      | 3 conforming to EN/IEC 60947-2  |

|  |   |
|--|---|
| [Ui] rated insulation voltage          | 500 V AC 50/60 Hz conforming to EN/IEC 60947-2  |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-2   |
| Control type                           | Toggle  |
| Local signalling                       | ON/OFF indication   |
| Mounting mode                          | Clip-on   |
| Mounting support                       | 35 mm symmetrical DIN rail  |
| 9 mm pitches                           | 3   |
| Height                                 | 81 mm   |
| Width                                  | 27 mm   |
| Depth                                  | 73 mm   |
| Net weight                             | 0.205 kg  |
| Colour                                 | White   |
| Mechanical durability                  | 20000 cycles  |
| Electrical durability                  | 5000 cycles   |
| Connections - terminals                | Tunnel type terminals1...50 mm <sup>2</sup> rigid<br>Tunnel type terminals1.5...35 mm <sup>2</sup> flexible |
| Wire stripping length                  | 15 mm   |
| Tightening torque                      | 3.5 N.m   |
| Earth-leakage protection               | Without   |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | EN/IEC 60947-2               |
| IP degree of protection               | IP20 conforming to IEC 60529 |
| Pollution degree                      | 3 conforming to IEC 60947-2  |
| Overvoltage category                  | III                          |
| Tropicalisation                       | 2 conforming to IEC 60068-1  |
| Relative humidity                     | 95 % at 55 °C                |
| Ambient air temperature for operation | -30...70 °C                  |
| Ambient air temperature for storage   | -40...80 °C                  |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.205 kg |
| Package 1 Height | 0.750 dm |
| Package 1 width  | 0.270 dm |
| Package 1 Length | 0.860 dm |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|