# Product datasheet

Specifications

## Miniature circuit breaker (MCB), Acti9 C120N, 1P, 80A, B curve, 10000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)

A9N18341

## Main

| | |
|---|---|
| **Range Of Product** | C120 |
| **Range** | Acti9 |
| **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 at 30 °C |
| **Network Type** | AC |
| **Trip Unit Technology** | Thermal-magnetic |
| **Curve Code** | B |
| **Breaking Capacity** | 3 kA Icu at 380...415 V AC 50/60 Hz IT conforming to EN/IEC 60947-2<br>20 kA Icu at 130 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>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 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 kA Icu at 12 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10000 A Icn at 230...400 V AC 50/60 Hz conforming to EN/IEC 60898-1 |
| **Suitability For Isolation** | Yes conforming to IEC 60947-2 |

## Complementary

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|---|---|
| **Network Frequency** | 50/60 Hz |
| **[Ue] Rated Operational Voltage** | 380...415 V AC 50/60 Hz<br>125 V DC<br><= 144 V DC<br>12 V DC<br>220...240 V AC 50/60 Hz<br>230...400 V AC 50/60 Hz<br>130 V AC 50/60 Hz<br>12 V AC 50/60 Hz |
| **Magnetic Tripping Limit** | 3...5 x In |
| **[Ics] Rated Service Breaking Capacity** | 15 kA 75 % conforming to EN/IEC 60947-2 - 130 V AC 50/60 Hz<br>15 kA 100 % conforming to EN/IEC 60947-2 - 125 V DC<br>2.25 kA 75 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>15 kA 100 % conforming to EN/IEC 60947-2 - 12 V DC<br>10 kA 100 % conforming to EN/IEC 60947-2 - <= 144 V DC<br>7.5 kA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>15 kA 75 % conforming to EN/IEC 60947-2 - 12 V AC 50/60 Hz<br>7500 A 75 % conforming to EN/IEC 60898-1 - 230...400 V AC 50/60 Hz |
| **Limitation Class** | 3 conforming to EN/IEC 60947-2 |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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|---|---|
| **[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 |
| **Contact Position Indicator** | Yes |
| **Control Type** | Toggle |
| **Local Signalling** | ON/OFF indication |
| **Mounting Mode** | Clip-on |
| **Mounting Support** | 35 mm symmetrical DIN rail |
| **Comb Busbar And Distribution Block Compatibility** | YES |
| **9 Mm Pitches** | 3 |
| **Height** | 81 mm |
| **Depth** | 73 mm |
| **Width** | 27 mm |
| **Net Weight** | 0.205 kg |
| **Colour** | White |
| **Mechanical Durability** | 20000 cycles |
| **Electrical Durability** | 5000 cycles conforming to IEC 60947-2 |
| **Connections - Terminals** | Tunnel type terminals1…50 $mm^2$ rigid<br>Tunnel type terminals1.5…35 $mm^2$ flexible |
| **Wire Stripping Length** | 15 mm |
| **Tightening Torque** | 3.5 N.m |
| **Earth-Leakage Protection** | Without |

## Environment

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|---|---|
| **Standards** | EN/IEC 60898-1<br>EN/IEC 60947-2 |
| **Product Certifications** | EAC |
| **Ip Degree Of Protection** | IP20 conforming to IEC 60529 |
| **Pollution Degree** | 3 conforming to IEC 60947-2 |
| **Overvoltage Category** | IV |
| **Tropicalisation** | 2 conforming to IEC 60068-1 |
| **Relative Humidity** | 95 % at 55 °C |
| **Operating Altitude** | 2000 m |
| **Ambient Air Temperature For Operation** | -25…70 °C |
| **Ambient Air Temperature For Storage** | -40…85 °C |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 2.7 cm |
| **Package 1 Width** | 6.8 cm |
| **Package 1 Length** | 8.4 cm |
| **Package 1 Weight** | 192.0 g |

| | |
|---|---|
| **Unit Type Of Package 2** | BB1 |
| **Number Of Units In Package 2** | 12 |
| **Package 2 Height** | 8.6 cm |
| **Package 2 Width** | 9.3 cm |
| **Package 2 Length** | 33.3 cm |
| **Package 2 Weight** | 2.373 kg |
| **Unit Type Of Package 3** | S03 |
| **Number Of Units In Package 3** | 72 |
| **Package 3 Height** | 30.0 cm |
| **Package 3 Width** | 30.0 cm |
| **Package 3 Length** | 40.0 cm |
| **Package 3 Weight** | 14.725 kg |

## Contractual warranty

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

## Sustainability

**Green Premium$^{TM}$ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

## Well-being performance

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|---|---|
| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | No need of specific recycling operations |