# Product datasheet

Specifications



## C120N - circuit breaker - 4P - 80A - C curve

A9N18372

## 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** | 4P |
| **Number of protected poles** | 4 |
| **[In] rated current** | 80 A at 30 °C |
| **Network type** | AC |
| **Trip unit technology** | Thermal-magnetic |
| **Curve code** | C |
| **Breaking capacity** | 10000 A Icn at 230...400 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>6 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 kA Icu at <= 500 V DC conforming to EN/IEC 60947-2 |
| **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><= 500 V DC<br>220...240 V AC 50/60 Hz<br>440 V AC 50/60 Hz<br>230...400 V AC 50/60 Hz |
| **Magnetic tripping limit** | 5...10 x In |
| **[Ics] rated service breaking capacity** | 7500 A 75 % conforming to EN/IEC 60898-1 - 230...400 V AC 50/60 Hz<br>4.5 kA 75 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz<br>7.5 kA 75 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>15 kA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>10 kA 100 % conforming to EN/IEC 60947-2 - <= 500 V DC |
| **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 |

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

| | |
|---|---|
| **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** | 12 |
| **Height** | 81 mm |
| **Width** | 108 mm |
| **Depth** | 73 mm |
| **Product weight** | 0.82 kg |
| **Colour** | White |
| **Mechanical durability** | 20000 cycles |
| **Electrical durability** | 5000 cycles conforming to IEC 60947-2 |
| **Locking options description** | Handle sealable with cable diameter 0.7mm in OFF or ON position |
| **Connections - terminals** | Tunnel type terminals1…50 mm² rigid<br>Tunnel type terminals1.5…35 mm² flexible |
| **Wire stripping length** | 15 mm |
| **Tightening torque** | 3.5 N.m |
| **Earth-leakage protection** | Separate block |

## 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** | 7.5 cm |
| **Package 1 Width** | 8.7 cm |
| **Package 1 Length** | 10.8 cm |
| **Package 1 Weight** | 775 g |
| **Unit Type of Package 2** | BB1 |
| **Number of Units in Package 2** | 3 |

| | |
|---|---|
| **Package 2 Height** | 10 cm |
| **Package 2 Width** | 9 cm |
| **Package 2 Length** | 33 cm |
| **Package 2 Weight** | 2.38 kg |
| **Unit Type of Package 3** | S03 |
| **Number of Units in Package 3** | 18 |
| **Package 3 Height** | 30 cm |
| **Package 3 Width** | 30 cm |
| **Package 3 Length** | 40 cm |
| **Package 3 Weight** | 14.853 kg |

## Offer Sustainability

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|---|---|
| **Sustainable offer status** | Green Premium product |
| **REACh Regulation** | REACh Declaration |
| **REACh free of SVHC** | Yes |
| **EU RoHS Directive** | Compliant<br>EU RoHS Declaration |
| **Toxic heavy metal free** | Yes |
| **Mercury free** | Yes |
| **China RoHS Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **RoHS exemption information** | Yes |
| **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 |

## Contractual warranty

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|---|---|
| **Warranty** | 12 months |

### Recommended replacement(s)