# Product data sheet
## Characteristics

# A9N18359
Miniature circuit breaker (MCB), Acti9 C120N, 1P, 125A, C curve, 10000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)



## Main

| | |
|---|---|
| Range | Acti9 |
| Product name | Acti9 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 | 125 A at 30 °C |
| Network type | AC<br>DC |
| Trip unit technology | Thermal-magnetic |
| Curve code | C |
| 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 |
| Standards | EN/IEC 60898-1<br>EN/IEC 60947-2 |
| Product certifications | EAC |

## Complementary

| | |
|---|---|
| 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 | 5...10 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 |
| [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 |

| | |
|---|---|
| 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 | Without |

## Environment

| | |
|---|---|
| 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

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.500 Cm |
| Package 1 Width | 7.500 Cm |
| Package 1 Length | 8.500 Cm |
| Package 1 Weight | 194.700 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 8.500 Cm |
| Package 2 Width | 9.500 Cm |
| Package 2 Length | 33.000 Cm |
| Package 2 Weight | 2.380 Kg |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 72 |
| Package 3 Height | 30.000 Cm |
| Package 3 Width | 30.000 Cm |
| Package 3 Length | 40.000 Cm |
| Package 3 Weight | 14.659 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 60 |
| Total lifecycle Carbon footprint | 24 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1.1236117901363856 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.02538673221705866 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.009312201822561273 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 22.081233333333326 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 22 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.5297862568355988 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.5 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 24 |

| | |
|---|---|
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | Yes |
| SCIP Number | F3fcbd4f-b3e8-41f9-b910-8853888889fe |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| OECD PFAS Regulation | Item contains PFAS Chemicals |
| POP Directive | No POPs |
| Halogen-free status | Product contains halogen above thresholds |
| PVC free | Yes |
| Silicone-free | No |
| End of life manual availability | No need of specific recycling operations |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised