

# Product datasheet

Specifications



Miniature circuit breaker (MCB),  
Acti9 C120N, 3P, 125A, D curve,  
10000A (IEC/EN 60898-1), 10kA  
(IEC/EN 60947-2)

A9N18389

## Main

|                           |                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Acti9                                                                                                                                                                                                                                                                                                                          |
| Product name              | Acti9 C120                                                                                                                                                                                                                                                                                                                     |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                      |
| Device short name         | C120N                                                                                                                                                                                                                                                                                                                          |
| Device application        | Distribution                                                                                                                                                                                                                                                                                                                   |
| Poles description         | 3P                                                                                                                                                                                                                                                                                                                             |
| Number of protected poles | 3                                                                                                                                                                                                                                                                                                                              |
| [In] rated current        | 125 A at 30 °C                                                                                                                                                                                                                                                                                                                 |
| Network type              | AC                                                                                                                                                                                                                                                                                                                             |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                               |
| Curve code                | D                                                                                                                                                                                                                                                                                                                              |
| Breaking capacity         | 10000 A Icn at 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 <= 375 V DC conforming to EN/IEC 60947-2 |
| Suitability for isolation | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                  |
| Standards                 | EN/IEC 60947-2<br>EN/IEC 60898-1                                                                                                                                                                                                                                                                                               |
| Product certifications    | EAC                                                                                                                                                                                                                                                                                                                            |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                          |
| [Ue] rated operational voltage         | <= 375 V DC<br>380...415 V AC 50/60 Hz<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                | 10...14 x In                                                                                                                                                                                                                                                                                                                      |
| [Ics] rated service breaking capacity  | 7500 A 75 % conforming to EN/IEC 60898-1 - 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 - <= 375 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                                                                                                                                                                                                                                                                                                 |
| Contact position indicator             | Yes                                                                                                                                                                                                                                                                                                                               |

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

|                                                  |                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------|
| 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                                     | 9                                                                                   |
| Height                                           | 81 mm                                                                               |
| Depth                                            | 73 mm                                                                               |
| Width                                            | 81 mm                                                                               |
| Net weight                                       | 0.615 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

|                                       |                              |
|---------------------------------------|------------------------------|
| 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             | 7.500 cm  |
| Package 1 Width              | 8.000 cm  |
| Package 1 Length             | 8.500 cm  |
| Package 1 Weight             | 583.000 g |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 4         |
| Package 2 Height             | 8.500 cm  |
| Package 2 Width              | 9.500 cm  |

|                              |           |
|------------------------------|-----------|
| Package 2 Length             | 33.500 cm |
| Package 2 Weight             | 2.393 kg  |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 24        |
| Package 3 Height             | 30.000 cm |
| Package 3 Width              | 30.000 cm |
| Package 3 Length             | 40.000 cm |
| Package 3 Weight             | 14.746 kg |

## Contractual warranty

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

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

|  Environmental footprint |                                               |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                                                                          | 71 kg CO2 eq.                                 |
| Environmental Disclosure                                                                                  | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3]                                                    | 3 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]                                                           | 0.1 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]                                                           | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]                                                        | 66 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]                                                      | 2 kg CO2 eq.                                  |

Use Better

|  Materials and Substances |                                           |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Packaging made with recycled cardboard                                                                      | No                                        |
| Packaging without single use plastic                                                                        | Yes                                       |
| SCIP Number                                                                                                 | Ab76a2c8-39ad-4485-a07c-19f81f42d0a0      |
| Halogen-free status                                                                                         | Product contains halogen above thresholds |

Use Longer

|  Lifetime extension |    |
|--------------------------------------------------------------------------------------------------------|----|
| Repair                                                                                                 | No |

Use Again

|  Repack and remanufacture |                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %                                                                                | 60                                                                                                                                                                                                              |
| 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 never end up in rubbish bins |