

# Product data sheet

Specifications



## Miniature circuit-breaker, Acti9 C120H, 3P, 80 A, B curve, 15000 A (IEC 60898-1), 15 kA (IEC 60947-2)

A9N18424

### Main

|                           |   |
|---------------------------|---|
| Range of product          | C120  |
| Range                     | Acti 9  |
| Product name              | C120  |
| Product or component type | Miniature circuit-breaker   |
| Device short name         | C120H   |
| Device application        | Distribution  |
| Poles description         | 3P  |
| Number of protected poles | 3   |
| [In] rated current        | 80 A at 30 °C   |
| Network type              | AC  |
| Trip unit technology      | Thermal-magnetic  |
| Curve code                | B   |
| Breaking capacity         | 15000 A Icn at 230...400 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>10 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>30 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 kA Icu at <= 375 V DC conforming to EN/IEC 60947-2 |
| Suitability for isolation | Yes conforming to IEC 60947-2   |

### 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                | 3...5 x In  |
| [Ics] rated service breaking capacity  | 7500 A 50 % conforming to EN/IEC 60898-1 - 230...400 V AC 50/60 Hz<br>5 kA 50 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz<br>15 kA 50 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 50 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>15 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   |
| 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   |
| Width  | 81 mm   |
| Depth  | 73 mm   |
| Net weight                                       | 0.615 kg  |
| Colour   | White   |
| Mechanical durability                            | 20000 cycles  |
| Electrical durability                            | 5000 cycles conforming to IEC 60947-2   |
| 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                         | Separate block  |

## Environment

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60898-1 |
| 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 | -30...60 °C                      |
| Ambient air temperature for storage   | -40...70 °C                      |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 580.0 g   |
| Package 1 Height             | 7.3 cm    |
| Package 1 width              | 8.0 cm    |
| Package 1 Length             | 8.7 cm    |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 24        |
| Package 2 Weight             | 14.739 kg |

|                              |          |
|------------------------------|----------|
| Package 2 Height             | 30.0 cm  |
| Package 2 width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Unit Type of Package 3       | BB1      |
| Number of Units in Package 3 | 4        |
| Package 3 Weight             | 2.387 kg |
| Package 3 Height             | 9.0 cm   |
| Package 3 width              | 10.0 cm  |
| Package 3 Length             | 33.0 cm  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| 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>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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