

# Product datasheet

Specifications



## Miniature circuit-breaker, Acti9 C120H, 1P, 100 A, B curve, 15000 A (IEC 60898-1), 15 kA (IEC 60947-2)

Local distributor code: 397539598    A9N18403

### 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         | 1P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Number of protected poles | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [In] rated current        | 100 A at 30 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Network type              | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Curve code                | B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Breaking capacity         | 30 kA Icu at 130 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 kA Icu at 12 V DC conforming to EN/IEC 60947-2<br>20 kA Icu at 125 V DC conforming to EN/IEC 60947-2<br>15 kA Icu at <= 144 V DC conforming to EN/IEC 60947-2<br>15 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15000 A Icn at 230...400 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>4.5 kA Icu at 380...415 V AC 50/60 Hz IT conforming to EN/IEC 60947-2<br>30 kA Icu at 12 V AC 50/60 Hz 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        | 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 50 % conforming to EN/IEC 60947-2 - 130 V AC 50/60 Hz<br>7.5 kA 50 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>2.25 kA 50 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>7500 A 50 % conforming to EN/IEC 60898-1 - 230...400 V AC 50/60 Hz<br>20 kA 100 % conforming to EN/IEC 60947-2 - 12 V DC<br>15 kA 100 % conforming to EN/IEC 60947-2 - <= 144 V DC<br>20 kA 100 % conforming to EN/IEC 60947-2 - 125 V DC |

|                                                  |                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                  | 15 kA 50 % conforming to EN/IEC 60947-2 - 12 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 | NO                                                                                  |
| 9 mm pitches                                     | 3                                                                                   |
| Height                                           | 81 mm                                                                               |
| Width                                            | 27 mm                                                                               |
| Depth                                            | 73 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 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

|                                       |                                  |
|---------------------------------------|----------------------------------|
| 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 | -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             | 193.0 g |
| Package 1 Height             | 2.7 cm  |

|                              |           |
|------------------------------|-----------|
| Package 1 width              | 7.5 cm    |
| Package 1 Length             | 8.5 cm    |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 12        |
| Package 2 Weight             | 2.384 kg  |
| Package 2 Height             | 8.5 cm    |
| Package 2 width              | 9.5 cm    |
| Package 2 Length             | 33 cm     |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 72        |
| Package 3 Weight             | 14.794 kg |
| Package 3 Height             | 30 cm     |
| Package 3 width              | 30 cm     |
| Package 3 Length             | 40 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 |
|----------|-----------|