

Product datasheet

Specifications



C120N - circuit breaker - 1P - 80A - C curve

A9N18357

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 | 1P |
| Number Of Protected Poles | 1 |
| [In] Rated Current | 80 A at 30 °C |
| Network Type | AC |
| 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 20 kA Icu at 130 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA Icu at 12 V DC conforming to EN/IEC 60947-2 15 kA Icu at 125 V DC conforming to EN/IEC 60947-2 10 kA Icu at <= 144 V DC conforming to EN/IEC 60947-2 10 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 20 kA Icu at 12 V AC 50/60 Hz conforming to EN/IEC 60947-2 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 |

Complementary

| | |
|---------------------------------------|---|
| Network Frequency | 50/60 Hz |
| [Ue] Rated Operational Voltage | 380...415 V AC 50/60 Hz 125 V DC <= 144 V DC 12 V DC 220...240 V AC 50/60 Hz 230...400 V AC 50/60 Hz 130 V AC 50/60 Hz 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 15 kA 100 % conforming to EN/IEC 60947-2 - 125 V DC 2.25 kA 75 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz 15 kA 100 % conforming to EN/IEC 60947-2 - 12 V DC 10 kA 100 % conforming to EN/IEC 60947-2 - <= 144 V DC 7.5 kA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz 15 kA 75 % conforming to EN/IEC 60947-2 - 12 V AC 50/60 Hz 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 mm ² rigid Tunnel type terminals1.5...35 mm ² flexible |
| Wire Stripping Length | 15 mm |
| Tightening Torque | 3.5 N.m |
| Earth-Leakage Protection | Without |

Environment

| | |
|--|----------------------------------|
| Standards | EN/IEC 60898-1 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

| | |
|-------------------------------------|--------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.7 cm |
| Package 1 Width | 7.5 cm |
| Package 1 Length | 8.7 cm |

| | |
|------------------------------|-----------|
| Package 1 Weight | 193 g |
| Unit Type Of Package 2 | BB1 |
| Number Of Units In Package 2 | 12 |
| Package 2 Height | 8.5 cm |
| Package 2 Width | 9.2 cm |
| Package 2 Length | 32.8 cm |
| Package 2 Weight | 2.377 kg |
| Unit Type Of Package 3 | S03 |
| Number Of Units In Package 3 | 72 |
| Package 3 Height | 30 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 14.749 kg |

Contractual warranty

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Compliant

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)

Pro-active China RoHS declaration (out of China RoHS legal scope)

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

Circularity Profile

No need of specific recycling operations