

# Product datasheet

Specifications



Miniature circuit breaker (MCB),  
Acti9 C120N, 1P, 80A, D curve,  
10000A (IEC/EN 60898-1), 10kA  
(IEC/EN 60947-2)

A9N18379

## 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	80 A at 30 °C
Network type	AC
Trip unit technology	Thermal-magnetic
Curve code	D
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
Standards	EN/IEC 60947-2 EN/IEC 60898-1
Product certifications	EAC

## 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	10...14 x In

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>[Ics] rated service breaking capacity</b>	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
<b>Limitation class</b>	3 conforming to EN/IEC 60947-2
<b>[U] rated insulation voltage</b>	500 V AC 50/60 Hz conforming to EN/IEC 60947-2
<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to EN/IEC 60947-2
<b>Contact position indicator</b>	Yes
<b>control type</b>	Toggle
<b>Local signalling</b>	ON/OFF indication
<b>Mounting mode</b>	Clip-on
<b>Mounting support</b>	35 mm symmetrical DIN rail
<b>Comb busbar and distribution block compatibility</b>	YES
<b>9 mm pitches</b>	3
<b>Height</b>	81 mm
<b>Depth</b>	73 mm
<b>Width</b>	27 mm
<b>Net weight</b>	0.205 kg
<b>Colour</b>	White
<b>Mechanical durability</b>	20000 cycles
<b>Electrical durability</b>	5000 cycles conforming to IEC 60947-2
<b>Locking options description</b>	Handle sealable with cable diameter 0.7mm in OFF or ON position
<b>Connections - terminals</b>	Tunnel type terminals 1...50 mm <sup>2</sup> rigid Tunnel type terminals 1.5...35 mm <sup>2</sup> flexible
<b>Wire stripping length</b>	15 mm
<b>Tightening torque</b>	3.5 N.m
<b>Earth-leakage protection</b>	Without

## Environment

<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Pollution degree</b>	3 conforming to IEC 60947-2
<b>Overvoltage category</b>	IV
<b>Tropicalisation</b>	2 conforming to IEC 60068-1
<b>Relative humidity</b>	95 % at 55 °C
<b>Operating altitude</b>	2000 m
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.500 cm
<b>Package 1 Width</b>	2.700 cm
<b>Package 1 Length</b>	8.500 cm
<b>Package 1 Weight</b>	192.000 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	8.500 cm
<b>Package 2 Width</b>	9.300 cm
<b>Package 2 Length</b>	33.500 cm
<b>Package 2 Weight</b>	2.369 kg
<b>Unit Type of Package 3</b>	S03
<b>Number of Units in Package 3</b>	72
<b>Package 3 Height</b>	30.000 cm
<b>Package 3 Width</b>	30.000 cm
<b>Package 3 Length</b>	40.000 cm
<b>Package 3 Weight</b>	14.755 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 19

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant

SCIP Number F3fcbd4f-b3e8-41f9-b910-8853888889fe

REACH Regulation [REACH Declaration](#)

Halogen-free status Product contains halogen above thresholds

## Use Longer

### Lifetime extension

Repair No

## Use Again

### Repack and remanufacture

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