Product datasheet

Specifications



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

A9N18357

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 DC
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
Standards	EN/IEC 60898-1 EN/IEC 60947-2
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	5...10 x In

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

[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 mm² rigid Tunnel type terminals1.5…35 mm² flexible
Wire stripping length	15 mm
Tightening torque	3.5 N.m
Earth-leakage protection	Without

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	2.700 cm
Package 1 Width	7.500 cm
Package 1 Length	8.700 cm
Package 1 Weight	193.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	8.500 cm
Package 2 Width	9.200 cm
Package 2 Length	32.800 cm
Package 2 Weight	2.377 kg
Unit Type of Package 3	S03
Number of Units in Package 3	72
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	14.749 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	**19 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**1 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**17 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.5 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**Yes**
SCIP Number	**F3fcbd4f-b3e8-41f9-b910-8853888889fe**
EU RoHS Directive	**Compliant**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
OECD PFAS Regulation	**Item contains PFAS Chemicals**
POP Directive	**No POPs**
Halogen-free status	**Product contains halogen above thresholds**
PVC free	**Yes**
Silicone-free	**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**