

Product datasheet

Specifications



C120N - circuit breaker - 3P - 80A - C curve

A9N18365

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	3P
Number of protected poles	3
[In] rated current	80 A at 30 °C
Network type	AC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	10000 A Icn at 230...400 V AC 50/60 Hz conforming to EN/IEC 60898-1 6 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 20 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 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 380...415 V AC 50/60 Hz 220...240 V AC 50/60 Hz 440 V AC 50/60 Hz 230...400 V AC 50/60 Hz
Magnetic tripping limit	5...10 x In
[Ics] rated service breaking capacity	7500 A 75 % conforming to EN/IEC 60898-1 - 230...400 V AC 50/60 Hz 4.5 kA 75 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz 7.5 kA 75 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz 15 kA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz 10 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
Depth	73 mm
Width	81 mm
net weight	0.615 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	Separate block

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	7.500 cm
Package 1 Width	8.000 cm
Package 1 Length	8.500 cm
Package 1 Weight	582.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	4
Package 2 Height	8.500 cm

Package 2 Width	9.500 cm
Package 2 Length	33.000 cm
Package 2 Weight	2.391 kg
Unit Type of Package 3	S03
Number of Units in Package 3	24
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	14.753 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

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