

# Product data sheet

Specifications



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

A9N60745

### 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
Network type	AC DC
Trip unit technology	Thermal-magnetic
Curve code	D
Breaking capacity	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 230...400 V AC 50/60 Hz conforming to EN/IEC 60947-2

### Complementary

Network frequency	50/60 Hz
[Ue] rated operational voltage	125 V DC <= 144 V DC 12 V DC 230...400 V AC 50/60 Hz
Magnetic tripping limit	12 x In +/- 20 %
[Ics] rated service breaking capacity	7.5 kA 75 % conforming to EN/IEC 60947-2 - 230...400 V AC 50/60 Hz 10 kA 100 % conforming to EN/IEC 60947-2 - 24/48 V DC 10 kA 100 % conforming to EN/IEC 60947-2 - 125 V DC 10 kA
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
Control type	Toggle
Local signalling	ON/OFF indication

Mounting mode	Clip-on
Mounting support	35 mm symmetrical DIN rail
9 mm pitches	3
Height	81 mm
Width	27 mm
Depth	73 mm
Product weight	0.205 kg
Colour	White
Mechanical durability	20000 cycles
Electrical durability	5000 cycles
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

Standards	EN/IEC 60947-2
IP degree of protection	IP20 conforming to IEC 60529
Pollution degree	3 conforming to IEC 60947-2
Overvoltage category	III
Tropicalisation	2 conforming to IEC 60068-1
Relative humidity	95 % at 55 °C
Ambient air temperature for operation	-30...70 °C
Ambient air temperature for storage	-40...80 °C

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	2.7 cm
Package 1 Length	8.6 cm
Package 1 Weight	192.7 g
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	9.5 cm
Package 2 Width	8.5 cm
Package 2 Length	33 cm
Package 2 Weight	2.575 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	15.937 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <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> Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

### Contractual warranty

Warranty	18 months
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### Recommended replacement(s)