

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 terminals 1...50 mm ² rigid Tunnel type terminals 1.5...35 mm ² 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	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months
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Recommended replacement(s)