Product data sheet
Characteristics

A9N18387
Miniature circuit breaker (MCB), Acti9 C120N, 3P, 80A, D curve, 10000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)



Main

Range	Acti9
Product name	Acti9 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 DC
Trip unit technology	Thermal-magnetic
Curve code	D
Breaking capacity	10000 A Icn at 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
Standards	EN/IEC 60947-2 EN/IEC 60898-1
Product certifications	EAC

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	10...14 x In
[Ics] rated service breaking capacity	7500 A 75 % conforming to EN/IEC 60898-1 - 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 mm² rigid Tunnel type terminals1.5…35 mm² flexible
Wire stripping length	15 Mm
Tightening torque	3.5 N.M
Earth-leakage protection	Separate block

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	7.500 Cm
Package 1 Width	8.200 Cm
Package 1 Length	8.800 Cm
Package 1 Weight	583.000 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	33.500 Cm
Package 2 Weight	2.394 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	14.848 Kg

Offer Sustainability

Recyclability potential, in %	60
Total lifecycle Carbon footprint	57 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3.3957994410728207
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.07672423147401211
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.

Carbon footprint of the installation phase [A5]	0.02814350118235454
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	51.702400000000004
Carbon footprint of the use phase [B2, B3, B4, B6]	52 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	1.6011294030939431
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	57
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
SCIP Number	Ab76a2c8-39ad-4485-a07c-19f81f42d0a0
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
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
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised