# **Product datasheet**

Specifications





Miniature circuit breaker (MCB), Acti9 C120N, 4P, 100A, B curve, 10000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)

A9N18354

#### 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	4P
Number of protected poles	4
[In] rated current	100 A at 30 °C
Network type	AC
Trip unit technology	Thermal-magnetic
Curve code	В
Breaking capacity	10000 A Icn at 230400 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 220240 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at 380415 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at <= 500 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	380415 V AC 50/60 Hz <= 500 V DC 220240 V AC 50/60 Hz 440 V AC 50/60 Hz 230400 V AC 50/60 Hz
Magnetic tripping limit	35 x ln
[lcs] rated service breaking capacity	7500 A 75 % conforming to EN/IEC 60898-1 - 230400 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 - 380415 V AC 50/60 Hz 15 kA 75 % conforming to EN/IEC 60947-2 - 220240 V AC 50/60 Hz 10 kA 100 % conforming to EN/IEC 60947-2 - <= 500 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	12	
Height	81 mm	
Depth	73 mm	
Width	108 mm	
Net weight	0.82 kg	
Colour	White	
Mechanical durability	20000 cycles	
Electrical durability	5000 cycles conforming to IEC 60947-2	
Connections - terminals	Tunnel type terminals150 mm² rigid Tunnel type terminals1.535 mm² 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	-2570 °C
Ambient air temperature for storage	-4085 °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	8.8 cm
Package 1 Length	10.8 cm
Package 1 Weight	773 g
Unit Type of Package 2	BB1
Number of Units in Package 2	3
Package 2 Height	8.5 cm
Package 2 Width	9.5 cm

Package 2 Length	33.1 cm
Package 2 Weight	2.382 kg
Unit Type of Package 3	S03
Number of Units in Package 3	18
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	14.812 kg

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

✓ Toxic Heavy Metal Free
 ✓ Mercury Free
 ✓ Rohs Exemption Information

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
	EU RONS 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