

# Product data sheet

Specifications



## Miniature circuit-breaker, Acti9 C120H, 1P, 80 A, C curve, 15000 A (IEC 60898-1), 15 kA (IEC 60947-2)

A9N18446

### Main

Range of product	C120
Range	Acti 9
Product name	C120
Product or component type	Miniature circuit-breaker
Device short name	C120H
Device application	Distribution
Poles description	1P
Number of protected poles	1
[In] rated current	80 A at 30 °C
Network type	AC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	30 kA Icu at 130 V AC 50/60 Hz conforming to EN/IEC 60947-2 20 kA Icu at 12 V DC conforming to EN/IEC 60947-2 20 kA Icu at 125 V DC conforming to EN/IEC 60947-2 15 kA Icu at <= 144 V DC conforming to EN/IEC 60947-2 15 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 15000 A Icn at 230...400 V AC 50/60 Hz conforming to EN/IEC 60898-1 4.5 kA Icu at 380...415 V AC 50/60 Hz IT conforming to EN/IEC 60947-2 30 kA Icu at 12 V AC 50/60 Hz 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	380...415 V AC 50/60 Hz 125 V DC <= 144 V DC 12 V DC 220...240 V AC 50/60 Hz 230...400 V AC 50/60 Hz 130 V AC 50/60 Hz 12 V AC 50/60 Hz
Magnetic tripping limit	5...10 x In
[Ics] rated service breaking capacity	15 kA 50 % conforming to EN/IEC 60947-2 - 130 V AC 50/60 Hz 7.5 kA 50 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz 2.25 kA 50 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz 7500 A 50 % conforming to EN/IEC 60898-1 - 230...400 V AC 50/60 Hz 20 kA 100 % conforming to EN/IEC 60947-2 - 12 V DC 15 kA 100 % conforming to EN/IEC 60947-2 - <= 144 V DC 20 kA 100 % conforming to EN/IEC 60947-2 - 125 V DC

<b>Limitation class</b>	3 conforming to EN/IEC 60947-2
<b>[Ui] rated insulation voltage</b>	500 V AC 50/60 Hz conforming to EN/IEC 60947-2
<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to EN/IEC 60947-2
<b>Contact position indicator</b>	Yes
<b>Control type</b>	Toggle
<b>Local signalling</b>	ON/OFF indication
<b>Mounting mode</b>	Clip-on
<b>Mounting support</b>	35 mm symmetrical DIN rail
<b>Comb busbar and distribution block compatibility</b>	YES
<b>9 mm pitches</b>	3
<b>Height</b>	81 mm
<b>Width</b>	27 mm
<b>Depth</b>	73 mm
<b>Net weight</b>	0.205 kg
<b>Colour</b>	White
<b>Mechanical durability</b>	20000 cycles
<b>Electrical durability</b>	5000 cycles conforming to IEC 60947-2
<b>Connections - terminals</b>	Tunnel type terminals 1...50 mm <sup>2</sup> rigid Tunnel type terminals 1.5...35 mm <sup>2</sup> flexible
<b>Wire stripping length</b>	15 mm
<b>Tightening torque</b>	3.5 N.m
<b>Earth-leakage protection</b>	Without

## Environment

<b>Standards</b>	EN/IEC 60947-2 EN/IEC 60898-1
<b>Product certifications</b>	EAC
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Pollution degree</b>	3 conforming to IEC 60947-2
<b>Overvoltage category</b>	IV
<b>Tropicalisation</b>	2 conforming to IEC 60068-1
<b>Relative humidity</b>	95 % at 55 °C
<b>Operating altitude</b>	2000 m
<b>Ambient air temperature for operation</b>	-30...60 °C
<b>Ambient air temperature for storage</b>	-40...70 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	193.0 g
<b>Package 1 Height</b>	7.5 cm

Package 1 width	2.7 cm
Package 1 Length	8.6 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Weight	2.375 kg
Package 2 Height	8.6 cm
Package 2 width	9.3 cm
Package 2 Length	33.4 cm
Unit Type of Package 3	S03
Number of Units in Package 3	72
Package 3 Weight	14.737 kg
Package 3 Height	30.0 cm
Package 3 width	30.0 cm
Package 3 Length	40.0 cm

## 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>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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