# Product data sheet
## Characteristics

# A9K24420
Miniature circuit breaker (MCB), Acti9 iK60N, 4P, 20A, C curve, 6000A (IEC/EN 60898-1)



## Main

| | |
|---|---|
| Range | Acti9 |
| Product name | Acti9 iK60 |
| Product or component type | Miniature circuit-breaker |
| Device short name | iK60N |
| Device application | Distribution |
| Poles description | 4P |
| Number of protected poles | 4 |
| [In] rated current | 20 A at 30 °C |
| Network type | AC |
| Trip unit technology | Thermal-magnetic |
| Curve code | C |
| Suitability for isolation | Yes conforming to EN/IEC 60898-1 |
| Standards | EN/IEC 60898-1 |
| Product certifications | SNI |

## Complementary

| | |
|---|---|
| Network frequency | 50/60 Hz |
| [Ue] rated operational voltage | 400 V AC 50/60 Hz |
| Magnetic tripping limit | 5...10 x In |
| Breaking capacity | 6000 A Icn at 400 V AC 50/60 Hz conforming to EN/IEC 60898-1 |
| [Ics] rated service breaking capacity | 6000 A 100 % x Icn at 400 V AC 50/60 Hz conforming to EN/IEC 60898-1 |
| Limitation class | 3 conforming to EN/IEC 60898-1 |
| [Ui] rated insulation voltage | 440 V AC 50/60 Hz conforming to EN/IEC 60898-1 |
| [Uimp] rated impulse withstand voltage | 4 KV conforming to EN/IEC 60898-1 |
| Contact position indicator | No |
| Control type | Toggle |
| Local signalling | ON/OFF indication |
| Mounting mode | Clip-on |
| Mounting support | 35 mm DIN rail |
| Connection pitch | 18 Mm between phases |
| 9 mm pitches | 8 |
| Height | 85 Mm |
| Width | 72 Mm |
| Depth | 78.5 Mm |
| Net weight | 400 G |
| Colour | White |
| Mechanical durability | 20000 Cycles |

| | |
|---|---|
| Electrical durability | 10000 Cycles |
| Locking options description | Padlocking device |
| Connections - terminals | Tunnel type terminal (top or bottom) , 1…25 mm², rigid<br>Tunnel type terminal (top or bottom) , 1…16 mm², flexible |
| Wire stripping length | 14 Mm for top or bottom connection |
| Tightening torque | 2 N.M top or bottom |
| Earth-leakage protection | Without |

## Environment

| | |
|---|---|
| IP degree of protection | IP20 conforming to IEC 60529 |
| Pollution degree | 2 conforming to EN/IEC 60898-1 |
| Overvoltage category | II |
| Ambient air temperature for operation | -25…60 °C |
| Ambient air temperature for storage | -40…85 °C |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7.500 Cm |
| Package 1 Width | 7.200 Cm |
| Package 1 Length | 9.500 Cm |
| Package 1 Weight | 395.000 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 3 |
| Package 2 Height | 8.500 Cm |
| Package 2 Width | 9.500 Cm |
| Package 2 Length | 22.000 Cm |
| Package 2 Weight | 1.235 Kg |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 33 |
| Package 3 Height | 30.000 Cm |
| Package 3 Width | 30.000 Cm |
| Package 3 Length | 40.000 Cm |
| Package 3 Weight | 14.096 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 49 |
| Total lifecycle Carbon footprint | 9 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 3.4663306894326107 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 3 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.08499835081410742 |
| Carbon footprint of the distribution phase [A4] | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.023851441519693595 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 4.362376730791931 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 4 kg CO2 eq. |
| Mercury free | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 1.1262787372636922 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 1 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 9 |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| Halogen-free status | Product contains halogen above thresholds |
| PVC free | Yes |

| | |
|---|---|
| End of life manual availability | No need of specific recycling operations |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |