# Product data sheet
## Characteristics

# A9F74150
Miniature circuit breaker (MCB), Acti9 iC60N, 1P, 50A, C curve, 6000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)



## Main

| | |
|---|---|
| Range | Acti9 |
| Product name | Acti9 iC60 |
| Product or component type | Miniature circuit-breaker |
| Device short name | IC60N |
| Device application | Distribution |
| Poles description | 1P |
| Number of protected poles | 1 |
| [In] rated current | 50 A |
| Network type | DC<br>AC |
| Trip unit technology | Thermal-magnetic |
| Curve code | C |
| Utilisation category | Category A conforming to EN/IEC 60947-2 |
| Suitability for isolation | Yes conforming to EN/IEC 60898-1<br>Yes conforming to EN/IEC 60947-2 |
| Standards | EN/IEC 60947-2<br>EN/IEC 60898-1 |

## Complementary

| | |
|---|---|
| Network frequency | 50/60 Hz |
| [Ue] rated operational voltage | 12...60 V AC 50/60 Hz<br>100...133 V AC 50/60 Hz<br>220...240 V AC 50/60 Hz<br>12...60 V DC<br>60...72 V DC |
| Magnetic tripping limit | 8 x In +/- 20 % |
| Breaking capacity | 36 KA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 KA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 KA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 KA Icu at 12...60 V DC conforming to EN/IEC 60947-2<br>10 KA Icu at 60...72 V DC conforming to EN/IEC 60947-2<br>6000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1 |
| [Ics] rated service breaking capacity | 27 KA 75 % x Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 KA 75 % x Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>7.5 KA 75 % x Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 KA 100 % x Icu at 12...60 V DC conforming to EN/IEC 60947-2<br>10 KA 100 % x Icu at 60...72 V DC conforming to EN/IEC 60947-2 |
| Limitation class | 3 conforming to EN/IEC 60898-1 |
| [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 | Trip indicator |
| Mounting mode | Clip-on<br>Removable comb busbar installed |
| Mounting support | 35 mm DIN rail |
| Comb busbar and distribution block compatibility | Top or bottom: YES |
| Connection pitch | 18 Mm between devices |
| 9 mm pitches | 2 |
| Height | 85 Mm |
| Width | 18 Mm |
| Depth | 78.5 Mm |
| Net weight | 0.215 Kg |
| Colour | White |
| Mechanical durability | 20000 Cycles |
| Electrical durability | 10000 Cycles |
| Connections - terminals | Single terminal (top or bottom) , for 1 cable(s) , 1…35 mm², rigid, copper<br>Single terminal (top or bottom) , for 3.0 cable(s) , 16 mm², rigid, copper, with accessory<br>Single terminal (top or bottom) , for 1.0 cable(s) , 50 mm², rigid, aluminium, with accessory<br>Single terminal (top or bottom) , for 1.0 cable(s) , 1…25 mm², flexible, copper<br>Single terminal (top or bottom) , for 1.0 cable(s) , 1…25 mm², flexible with ferrule, copper<br>Single terminal (top or bottom) , for 1.0 cable(s) , flexible, copper or aluminium, with ring terminal a<br>Single terminal (top or bottom) , for 3 cable(s) , 10 mm², flexible, copper, with accessory |
| Wire stripping length | 14 Mm for top or bottom connection |
| Tightening torque | 3.5 N.M top or bottom |
| Earth-leakage protection | Without |

## Environment

| | |
|---|---|
| IP degree of protection | IP20 conforming to IEC 60529<br>IP40 in modular enclosure (Insulation class II) conforming to IEC 60529 |
| Pollution degree | 3 conforming to EN/IEC 60947-2 |
| Overvoltage category | IV |
| Tropicalisation | 2 conforming to IEC 60068-1 |
| Relative humidity | 95 % at 55 °C |
| Operating altitude | 0...2000 m |
| Ambient air temperature for operation | -35…70 °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 | 7.5 Cm |
| Package 1 Width | 1.8 Cm |
| Package 1 Length | 9.5 Cm |
| Package 1 Weight | 128.0 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 8.0 Cm |
| Package 2 Width | 9.8 Cm |
| Package 2 Length | 22.5 Cm |
| Package 2 Weight | 1.591 Kg |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 132 |
| Package 3 Height | 30 Cm |
| Package 3 Width | 30 Cm |
| Package 3 Length | 40 Cm |
| Package 3 Weight | 18.008 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 54 |
| Total lifecycle Carbon footprint | 23 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.8312930118248552 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.8 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.016842691687938765 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.011168513778491875 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 21.543333333333337 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 22 kg CO2 eq. |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.35309346231722266 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.4 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 23 |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| OECD PFAS Regulation | Item contains PFAS Chemicals |
| 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 |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |