# Product datasheet

Specifications

## iC60N - miniature circuit breaker - 1P - 50A - C curve

A9F74150

## Main

| | |
|---|---|
| **Device application** | Distribution |
| **Range** | Acti9 |
| **Product name** | Acti9 iC60 |
| **Product or component type** | Miniature circuit-breaker |
| **Device short name** | IC60N |
| **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 |
| **Breaking capacity** | 6000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>10 kA Icu at 60...72 V DC 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 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>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 |
| **Utilisation category** | Category A conforming to EN 60947-2<br>Category A conforming to IEC 60947-2 |
| **Suitability for isolation** | Yes conforming to EN 60898-1<br>Yes conforming to EN 60947-2<br>Yes conforming to IEC 60898-1<br>Yes conforming to IEC 60947-2 |
| **Standards** | IEC 60898-1<br>IEC 60947-2<br>EN 60947-2<br>EN 60898-1 |

## Complementary

| | |
|---|---|
| **Network frequency** | 50/60 Hz |
| **Magnetic tripping limit** | 8 x In +/- 20 % |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **[Ics] rated service breaking capacity** | 27 kA 75 % conforming to EN 60947-2 - 12...60 V AC 50/60 Hz<br>7.5 kA 75 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>27 kA 75 % conforming to IEC 60947-2 - 12...60 V AC 50/60 Hz<br>7.5 kA 75 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>15 kA 75 % conforming to IEC 60947-2 - 100...133 V AC 50/60 Hz<br>15 kA 75 % conforming to EN 60947-2 - 100...133 V AC 50/60 Hz<br>6000 A 100 % conforming to EN 60898-1 - 230 V AC 50/60 Hz<br>6000 A 100 % conforming to IEC 60898-1 - 230 V AC 50/60 Hz<br>10 kA 100 % conforming to EN 60947-2 - 72 V DC<br>10 kA 100 % conforming to IEC 60947-2 - 72 V DC<br>15 kA 100 % conforming to EN 60947-2 - 12...60 V DC<br>15 kA 100 % conforming to IEC 60947-2 - 12...60 V DC |
| **[Ui] rated insulation voltage** | 500 V AC 50/60 Hz conforming to EN 60947-2<br>500 V AC 50/60 Hz conforming to IEC 60947-2 |
| **[Uimp] rated impulse withstand voltage** | 6 kV conforming to EN 60947-2<br>6 kV conforming to IEC 60947-2 |
| **Contact position indicator** | Yes |
| **Control type** | Toggle |
| **Local signalling** | Trip indicator |
| **Mounting mode** | Fixed |
| **Mounting support** | DIN rail |
| **Comb busbar and distribution block compatibility** | Top or bottom: YES |
| **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) 1…35 mm² rigid<br>Single terminal (top or bottom) 1…25 mm² flexible |
| **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>IP20 conforming to EN 60529 |
| **Pollution degree** | 3 conforming to EN 60947-2<br>3 conforming to 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

| | |
|---|---|
| **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** | 30.0 cm |
| **Package 3 Width** | 30.0 cm |
| **Package 3 Length** | 40.0 cm |
| **Package 3 Weight** | 18.008 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty** | 12 months |

## Sustainability

**Green Premium$^{TM}$ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

## Well-being performance

| | |
|---|---|
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>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 |

Image of product / Alternate images

**Alternative**

3,5N.m
14mm
IEC/EN 60898-1
Ue=230/400V Icn=6000A 50/60Hz
IEC/EN 60947-2
In=8in (C) Tref=50°C 50/60Hz
Ue
133V
240V
Icu
20kA
10kA
Ics/Icu
75%
75%
Uimp=6kV
Ui=500V
Deg 3
Cat A
Schneider Electric
iC60N C