# Product datasheet

Specifications



## iC60H - miniature circuit breaker - 3P - 20A - D curve

A9F85320

## Main

| | |
|---|---|
| **Device application** | Distribution |
| **Range** | Acti9 |
| **Product name** | Acti9 iC60 |
| **Product or component type** | Miniature circuit-breaker |
| **Device short name** | iC60H |
| **Poles description** | 3P |
| **Number of protected poles** | 3 |
| **[In] rated current** | 20 A |
| **Network type** | DC<br>AC |
| **Trip unit technology** | Thermal-magnetic |
| **Curve code** | D |
| **Breaking capacity** | 10000 A Icn at 400 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>42 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>30 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>42 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 kA Icu at <= 180 V DC 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** | EN 60898-1<br>EN 60947-2<br>IEC 60947-2<br>IEC 60898-1 |

## Complementary

| | |
|---|---|
| **Network frequency** | 50/60 Hz |
| **Magnetic tripping limit** | 12 x In +/- 20 % |
| **[Ics] rated service breaking capacity** | 15 kA 50 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 50 % conforming to EN 60947-2 - 380...415 V AC 50/60 Hz<br>5 kA 50 % conforming to EN 60947-2 - 440 V AC 50/60 Hz<br>15 kA 50 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 50 % conforming to IEC 60947-2 - 380...415 V AC 50/60 Hz<br>5 kA 50 % conforming to IEC 60947-2 - 440 V AC 50/60 Hz<br>7500 A 75 % conforming to EN 60898-1 - 400 V AC 50/60 Hz<br>7500 A 75 % conforming to IEC 60898-1 - 400 V AC 50/60 Hz |

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

| | |
|---|---|
| | 21 kA 50 % conforming to IEC 60947-2 - 12...133 V AC 50/60 Hz<br>21 kA 50 % conforming to EN 60947-2 - 12...133 V AC 50/60 Hz<br>15 kA 100 % conforming to IEC 60947-2 - 125...180 V DC<br>15 kA 100 % conforming to EN 60947-2 - 125...180 V DC |
| **Limitation class** | 3 conforming to EN 60898-1<br>3 conforming to IEC 60898-1 |
| **[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** | 6 |
| **Height** | 85 mm |
| **Width** | 54 mm |
| **Depth** | 78.5 mm |
| **Product weight** | 0.375 kg |
| **Colour** | White |
| **Mechanical durability** | 20000 cycles |
| **Electrical durability** | 10000 cycles |
| **Connections - terminals** | Single terminal (top or bottom) 1…25 $mm^2$ rigid<br>Single terminal (top or bottom) 1…16 $mm^2$ flexible |
| **Wire stripping length** | 14 mm for top or bottom connection |
| **Tightening torque** | 2 N.m top or bottom |
| **Earth-leakage protection** | Separate block |

## Environment

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|---|---|
| **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

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 5.500 cm |
| **Package 1 Width** | 7.500 cm |

| | |
|---|---|
| **Package 1 Length** | 9.500 cm |
| **Package 1 Weight** | 341.800 g |
| **Unit Type of Package 2** | BB1 |
| **Number of Units in Package 2** | 4 |
| **Package 2 Height** | 8.500 cm |
| **Package 2 Width** | 10.000 cm |
| **Package 2 Length** | 22.500 cm |
| **Package 2 Weight** | 1.427 kg |
| **Unit Type of Package 3** | S03 |
| **Number of Units in Package 3** | 44 |
| **Package 3 Height** | 30.000 cm |
| **Package 3 Width** | 30.000 cm |
| **Package 3 Length** | 40.000 cm |
| **Package 3 Weight** | 16.080 kg |

## Offer Sustainability

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|---|---|
| **Sustainable offer status** | Green Premium product |
| **REACh Regulation** | REACh Declaration |
| **EU RoHS Directive** | Compliant<br>EU RoHS Declaration |
| **Mercury free** | Yes |
| **China RoHS Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **RoHS exemption information** | Yes |
| **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 |
| **Halogen content performance** | Halogen free product |

## Contractual warranty

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

### Recommended replacement(s)