

# Product Datasheet

## Characteristic

# A9F75170

Miniature circuit breaker (MCB), Acti9 iC60N, 1P, 0.5A, D curve, 6000A (IEC/EN 60898-1), 50kA (IEC/EN 60947-2)



## 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        | 0.5 A   |
| Network type              | AC<br>DC  |
| Trip unit technology      | Thermal-magnetic  |
| Curve code                | D   |
| Breaking capacity         | 6000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>50 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>50 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>50 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2<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 |
| 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 60947-2<br>EN 60898-1<br>EN 60947-2<br>IEC 60898-1  |

## Complementary

|                                       |  |
|---------------------------------------|--|
| Network frequency                     | 50/60 Hz   |
| Magnetic tripping limit               | 12 x In +/- 20 %   |
| [Ics] rated service breaking capacity | 50 kA 100 % conforming to EN 60947-2 - 12...60 V AC 50/60 Hz<br>50 kA 100 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>50 kA 100 % conforming to IEC 60947-2 - 12...60 V AC 50/60 Hz<br>50 kA 100 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz |

|  |  |
|--|--|
|  | 50 kA 100 % conforming to IEC 60947-2 - 100...133 V AC 50/60 Hz<br>50 kA 100 % 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...25 mm <sup>2</sup> rigid<br>Single terminal (top or bottom) 1...16 mm <sup>2</sup> 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<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             | 1.8 cm   |
| Package 1 Width              | 7.5 cm   |
| Package 1 Length             | 9.5 cm   |
| Package 1 Weight             | 112.0 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             | 1.406 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 | 16.048 kg |

### Offer Sustainability

|                             |   |
|-----------------------------|---|
| Sustainable offer status    | Green Premium product   |
| REACH Regulation            | Reference contains Substances of Very High Concern above the threshold  |
| EU RoHS Directive           | Compliant with Exemptions   |
| Mercury free                | Yes   |
| China RoHS Regulation       | Product out of China RoHS scope. Substance declaration for your information   |
| RoHS exemption information  | Yes   |
| Environmental Disclosure    | ENVPEP1705002EN   |
| Circularity Profile         | N/A   |
| 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  |