

# Product Datasheet

## Characteristic

# A9F73270

Miniature circuit breaker (MCB), Acti9 iC60N, 2P, 0.5A, B 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         | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Number of protected poles | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [In] rated current        | 0.5 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Network type              | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Curve code                | B                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Breaking capacity         | 6000 A Icn at 400 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>50 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>25 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 kA Icu at <= 125 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 60898-1<br>IEC 60947-2<br>EN 60898-1<br>EN 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Complementary

|                                       |                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                     | 50/60 Hz                                                                                                                                                                                            |
| Magnetic tripping limit               | 4 x In +/- 20 %                                                                                                                                                                                     |
| [Ics] rated service breaking capacity | 50 kA 100 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>50 kA 100 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>50 kA 100 % conforming to EN 60947-2 - 380...415 V AC 50/60 Hz |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | 25 kA 100 % conforming to EN 60947-2 - 440 V AC 50/60 Hz<br>50 kA 100 % conforming to IEC 60947-2 - 380...415 V AC 50/60 Hz<br>25 kA 100 % conforming to IEC 60947-2 - 440 V AC 50/60 Hz<br>50 kA 100 % conforming to IEC 60947-2 - 12...133 V AC 50/60 Hz<br>50 kA 100 % conforming to EN 60947-2 - 12...133 V AC 50/60 Hz<br>6000 A 100 % conforming to EN 60898-1 - 400 V AC 50/60 Hz<br>6000 A 100 % conforming to IEC 60898-1 - 400 V AC 50/60 Hz<br>10 kA 100 % conforming to IEC 60947-2 - 72...125 V DC<br>10 kA 100 % conforming to EN 60947-2 - 72...125 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                                     | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Height                                           | 85 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Width                                            | 36 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Depth                                            | 78.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| net weight                                       | 0.25 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                         | Separate block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 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             | 3.5 cm  |
| Package 1 Width              | 7.2 cm  |
| Package 1 Length             | 9.5 cm  |
| Package 1 Weight             | 221.0 g |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 6       |
| Package 2 Height             | 7.8 cm  |
| Package 2 Width              | 9.7 cm  |
| Package 2 Length             | 22.3 cm |

|                              |           |
|------------------------------|-----------|
| Package 2 Weight             | 1.395 kg  |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 66        |
| Package 3 Height             | 30.0 cm   |
| Package 3 Width              | 30.0 cm   |
| Package 3 Length             | 40.0 cm   |
| Package 3 Weight             | 15.832 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                                                                                                        |