

# A9F74101

Miniature circuit breaker (MCB), Acti9 iC60N,  
1P, 1A, C 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        | 1 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>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                 | EN 60898-1<br>EN 60947-2<br>IEC 60898-1<br>IEC 60947-2                                                                                                                                                                                                                                                                                                                                        |
| Quality labels            | NF                                                                                                                                                                                                                                                                                                                                                                                            |

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## Complementary

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                                | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Magnetic tripping limit                          | 8 x I <sub>n</sub> +/- 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<br>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 |
| 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                                     | 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             | 9.5 cm |
| Package 1 Width              | 1.7 cm |
| Package 1 Length             | 7.5 cm |

|                              |           |
|------------------------------|-----------|
| Package 1 Weight             | 118.0 g   |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 12        |
| Package 2 Height             | 3.0 cm    |
| Package 2 Width              | 30.0 cm   |
| Package 2 Length             | 20.0 cm   |
| Package 2 Weight             | 1.42 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             | 16.237 kg |

### Offer Sustainability

|                             |                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                           |
| REACH Regulation            |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive           | Compliant with Exemptions                                                                                                       |
| Mercury free                | Yes                                                                                                                             |
| China RoHS Regulation       |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information  |  <a href="#">Yes</a>                           |
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile         | No need of specific recycling operations                                                                                        |
| 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

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|