

# Product datasheet

Specifications



Miniature circuit breaker (MCB),  
Acti9 iC60N, 2P, 10A, C curve,  
6000A (IEC/EN 60898-1), 10kA  
(IEC/EN 60947-2)

A9F79210

## 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        | 10 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Network type              | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Curve code                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Breaking capacity         | 6000 A Icn at 400 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>36 kA Icu at 12...60 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<br>10 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>6 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>36 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                 | EN 60947-2<br>EN 60898-1<br>IEC 60947-2<br>IEC 60898-1                                                                                                                                                                                                                                                                                                                                                                                                                |

## Complementary

|                                       |                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                     | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                      |
| Magnetic tripping limit               | 8 x In +/- 20 %                                                                                                                                                                                                                                                                                                                                                                               |
| [Ics] rated service breaking capacity | 15 kA 75 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 75 % conforming to EN 60947-2 - 380...415 V AC 50/60 Hz<br>4.5 kA 75 % conforming to EN 60947-2 - 440 V AC 50/60 Hz<br>15 kA 75 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 75 % conforming to IEC 60947-2 - 380...415 V AC 50/60 Hz<br>4.5 kA 75 % conforming to IEC 60947-2 - 440 V AC 50/60 Hz |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | 27 kA 75 % conforming to IEC 60947-2 - 12...133 V AC 50/60 Hz<br>27 kA 75 % 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 mm² rigid<br>Single terminal (top or bottom) 1...16 mm² 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                                 | 3.6 cm                                                                                                                                                                                                                                                                                                                                                                    |

|                              |           |
|------------------------------|-----------|
| Package 1 Width              | 7.5 cm    |
| Package 1 Length             | 9.5 cm    |
| Package 1 Weight             | 214.0 g   |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 6         |
| Package 2 Height             | 8.8 cm    |
| Package 2 Width              | 9.8 cm    |
| Package 2 Length             | 22 cm     |
| Package 2 Weight             | 1.341 kg  |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 66        |
| Package 3 Height             | 30 cm     |
| Package 3 Width              | 30 cm     |
| Package 3 Length             | 40 cm     |
| Package 3 Weight             | 15.257 kg |

Offer Sustainability

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                       |
| REACH Regulation            | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive           | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Mercury free                | Yes                                                                                                                         |
| China RoHS Regulation       | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| RoHS exemption information  | <a href="#">Yes</a>                                                                                                         |
| Environmental Disclosure    | <a href="#">Product Environmental Profile</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                                                                                                        |

Contractual warranty

|          |           |
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| Warranty | 18 months |
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Recommended replacement(s)