

# Product datasheet

Specifications



Miniature circuit-breaker. Acti9 iC60N. 4 pole. 20 A. C curve. 6000 A (IEC 60898-1). 10 kA (IEC 60947-2)

A9F77420

Price: 1,398.65 ZAR

## Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Application        | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Range                     | Acti9                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Name              | Acti9 iC60                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product Or Component Type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Device Short Name         | IC60N                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Poles Description         | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number Of Protected Poles | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [In] Rated Current        | 20 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Network Type              | DC<br>AC                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 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<br>10 kA Icu at <= 250 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>IEC 60898-1<br>EN 60947-2<br>IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                |
| Quality Labels            | NF                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Complementary

|                         |                 |
|-------------------------|-----------------|
| Network Frequency       | 50/60 Hz        |
| Magnetic Tripping Limit | 8 x In +/- 20 % |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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<br>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 - 180...250 V DC<br>10 kA 100 % conforming to EN 60947-2 - 180...250 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                                     | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Height                                           | 85 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Width                                            | 72 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Depth                                            | 78.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Net Weight                                       | 0.5 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             | 7.3 cm   |
| Package 1 Width              | 7.1 cm   |
| Package 1 Length             | 8.5 cm   |
| Package 1 Weight             | 453 g    |
| Unit Type Of Package 2       | BB1      |
| Number Of Units In Package 2 | 3        |
| Package 2 Height             | 8.2 cm   |
| Package 2 Width              | 9.8 cm   |
| Package 2 Length             | 22.2 cm  |
| Package 2 Weight             | 1.434 kg |
| Unit Type Of Package 3       | S03      |
| Number Of Units In Package 3 | 33       |
| Package 3 Height             | 30 cm    |
| Package 3 Width              | 30 cm    |
| Package 3 Length             | 40 cm    |
| Package 3 Weight             | 16.17 kg |

## Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

|                                                                                                              |     |
|--------------------------------------------------------------------------------------------------------------|-----|
|  Mercury Free               |     |
|  Rohs Exemption Information | Yes |
|  Halogen Free Product       |     |

## Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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 |
| Circularity Profile      | No need of specific recycling operations                                                                                    |