

# Product datasheet

Specifications



Miniature circuit breaker (MCB),  
Acti9 iC60N DISBO, 2P, 20A, D  
curve, 6000A (IEC/EN 60898-1),  
10kA (IEC/EN 60947-2)

A9F45220

## Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Acti9                                                                                                                                                                                                                                                                                                                                                                                               |
| product name              | Disbo iC60                                                                                                                                                                                                                                                                                                                                                                                          |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                                                                                           |
| Device short name         | IC60N                                                                                                                                                                                                                                                                                                                                                                                               |
| Poles description         | 2P                                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of protected poles | 2                                                                                                                                                                                                                                                                                                                                                                                                   |
| [In] rated current        | 20 A                                                                                                                                                                                                                                                                                                                                                                                                |
| Network type              | AC                                                                                                                                                                                                                                                                                                                                                                                                  |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                    |
| Curve code                | D                                                                                                                                                                                                                                                                                                                                                                                                   |
| Breaking capacity         | 6 kA Icu at 100...133 V DC conforming to EN/IEC 60947-2<br>6000 A Icn at 400 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>36 kA Icu at 12...133 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>10 kA Icu at 380...415 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 |
| Utilisation category      | Category A conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                             |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ue] rated operational voltage         | 12...133 V AC 50/60 Hz<br>220...240 V AC 50/60 Hz<br>380...415 V AC 50/60 Hz<br>440 V AC 50/60 Hz<br>400 V AC 50/60 Hz<br>100...133 V DC                                                                                                                                                                                                                                                                 |
| Magnetic tripping limit                | 12 x In +/- 20 %                                                                                                                                                                                                                                                                                                                                                                                         |
| [Ics] rated service breaking capacity  | 27 kA 75 % conforming to EN/IEC 60947-2 - 12...133 V AC 50/60 Hz<br>15 kA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 75 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>4.5 kA 75 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz<br>6000 A 100 % conforming to EN/IEC 60898-1 - 415 V AC 50/60 Hz<br>6 kA 100 % conforming to EN/IEC 60947-2 - 100...133 V DC |
| Limitation class                       | 3 conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                           |
| [Ui] rated insulation voltage          | 500 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                        |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                        |
| Contact position indicator             | Yes                                                                                                                                                                                                                                                                                                                                                                                                      |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                                                                                                                   |

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

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| Local signalling         | Trip indicator                                                                                          |
| Mounting mode            | Clip-on                                                                                                 |
| Mounting support         | Rail                                                                                                    |
| 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                                                                                            |
| Provision for padlocking | Padlockable                                                                                             |
| 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

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60898-1 |
| IP degree of protection               | IP20 conforming to IEC 60529     |
| Pollution degree                      | 3 conforming to EN/IEC 60947-2   |
| Overvoltage category                  | IV                               |
| Tropicalisation                       | 2 conforming to IEC 60068-1      |
| Relative humidity                     | 95 % at 55 °C                    |
| 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             | 7.0 cm   |
| Package 1 Width              | 3.5 cm   |
| Package 1 Length             | 9.0 cm   |
| Package 1 Weight             | 226.0 g  |
| Unit Type of Package 2       | BB1      |
| Number of Units in Package 2 | 6        |
| Package 2 Height             | 8.5 cm   |
| Package 2 Width              | 9.5 cm   |
| Package 2 Length             | 22.0 cm  |
| Package 2 Weight             | 1.394 kg |

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 66        |
| Package 3 Height             | 30.0 cm   |
| Package 3 Width              | 30.0 cm   |
| Package 3 Length             | 40.0 cm   |
| Package 3 Weight             | 15.821 kg |

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint                               |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 28                                            |
| Environmental Disclosure                              | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                      |
|----------------------------------------|--------------------------------------|
| Packaging made with recycled cardboard | Yes                                  |
| Packaging without single use plastic   | Yes                                  |
| <a href="#">EU RoHS Directive</a>      | Compliant                            |
| SCIP Number                            | 26ff71d1-98cf-4280-8725-455b9a6b2fb9 |
| REACH Regulation                       | <a href="#">REACH Declaration</a>    |

Use Again

| Repack and remanufacture |                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | No need of specific recycling operations                                                                                                                                                                        |
| Take-back                | No                                                                                                                                                                                                              |
| WEEE                     |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |