

# Product data sheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Acti9 iC60, 4P, 16A, C curve, 6000A/6kA, A-SI type, 30mA

A9D77416

## Main

|                                     |                                                                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Range                               | Acti9                                                                                                                              |
| Product Name                        | Acti9 iC60 RCBO                                                                                                                    |
| Product Or Component Type           | Residual current breaker with overcurrent protection (RCBO)                                                                        |
| Device Short Name                   | iC60 RCBO                                                                                                                          |
| Device Application                  | Distribution                                                                                                                       |
| Poles Description                   | 4P                                                                                                                                 |
| Number Of Protected Poles           | 4                                                                                                                                  |
| [In] Rated Current                  | 16 A                                                                                                                               |
| Network Type                        | AC                                                                                                                                 |
| Trip Unit Technology                | Thermal-magnetic                                                                                                                   |
| Curve Code                          | C                                                                                                                                  |
| Earth-Leakage Sensitivity           | 30 mA                                                                                                                              |
| Earth-Leakage Protection Time Delay | Instantaneous                                                                                                                      |
| Earth-Leakage Protection Class      | Type A-SI (Super Immunised)                                                                                                        |
| Breaking Capacity                   | 6000 A Icn at 380...415 V AC 50 Hz conforming to EN/IEC 61009-2-1<br>6 kA Icu at 380...415 V AC 50 Hz conforming to EN/IEC 60947-2 |
| Suitability For Isolation           | No conforming to IEC 60947-1                                                                                                       |
| Quality Labels                      | IMQ<br>KEMA-KEUR<br>NF<br>VDE                                                                                                      |

## Complementary

|                                       |                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Complementary                         | Outgoer                                                                                                                                            |
| Network Frequency                     | 50 Hz                                                                                                                                              |
| [Ue] Rated Operational Voltage        | 380...415 V AC 50 Hz                                                                                                                               |
| Magnetic Tripping Limit               | 5...10 x In                                                                                                                                        |
| Residual Current Tripping Technology  | Voltage independent                                                                                                                                |
| [Ics] Rated Service Breaking Capacity | 6000 A 100 % x Icn at 380...415 V AC 50 Hz conforming to EN/IEC 61009-2-1<br>6 kA 100 % x Icu at 380...415 V AC 50 Hz conforming to EN/IEC 60947-2 |
| Rated Breaking And Making Capacity    | Idm 6000 A at 380...415 V AC 50 Hz conforming to EN/IEC 61009-2-1                                                                                  |
| Limitation Class                      | 1 conforming to EN/IEC 61009-2-1                                                                                                                   |
| [Ui] Rated Insulation Voltage         | 500 V AC 50 Hz                                                                                                                                     |

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

|                                                         |                                                                                                                                                                                      |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Uimp] Rated Impulse Withstand Voltage</b>           | 4 kV                                                                                                                                                                                 |
| <b>Surge Current</b>                                    | 3000 A                                                                                                                                                                               |
| <b>Contact Position Indicator</b>                       | No                                                                                                                                                                                   |
| <b>Control Type</b>                                     | Toggle                                                                                                                                                                               |
| <b>Local Signalling</b>                                 | ON, OFF, fault trip                                                                                                                                                                  |
| <b>Mounting Mode</b>                                    | Clip-on                                                                                                                                                                              |
| <b>Mounting Support</b>                                 | DIN rail                                                                                                                                                                             |
| <b>Comb Busbar And Distribution Block Compatibility</b> | Top or bottom: YES<br>Bottom: biconnect                                                                                                                                              |
| <b>Connection Pitch</b>                                 | 9 mm between poles                                                                                                                                                                   |
| <b>9 Mm Pitches</b>                                     | 8                                                                                                                                                                                    |
| <b>Height</b>                                           | 86 mm                                                                                                                                                                                |
| <b>Width</b>                                            | 72 mm                                                                                                                                                                                |
| <b>Depth</b>                                            | 78 mm                                                                                                                                                                                |
| <b>Net Weight</b>                                       | 423 g                                                                                                                                                                                |
| <b>Colour</b>                                           | White                                                                                                                                                                                |
| <b>Mechanical Durability</b>                            | 20000 cycles                                                                                                                                                                         |
| <b>Electrical Durability</b>                            | 10000 cycles                                                                                                                                                                         |
| <b>Connections - Terminals</b>                          | Tunnel type terminal top or bottom 1...35 mm² rigid<br>Tunnel type terminal top or bottom 1...25 mm² flexible<br>Tunnel type terminal top or bottom 1...25 mm² flexible with ferrule |
| <b>Wire Stripping Length</b>                            | 12 mm for top or bottom connection                                                                                                                                                   |
| <b>Tightening Torque</b>                                | 2 N.m                                                                                                                                                                                |
| <b>Earth-Leakage Protection</b>                         | Integrated                                                                                                                                                                           |

## Environment

|                                              |                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Standards</b>                             | EN/IEC 60947-2<br>EN/IEC 61009-2-1                                                    |
| <b>Ip Degree Of Protection</b>               | IP40 (distribution enclosure) conforming to IEC 60529<br>IP20 conforming to IEC 60529 |
| <b>Overvoltage Category</b>                  | III conforming to IEC 60364                                                           |
| <b>Electromagnetic Compatibility</b>         | 8/20 µs impulse withstand, 3000 A conforming to EN/IEC 61009-2-1                      |
| <b>Tropicalisation</b>                       | 2                                                                                     |
| <b>Relative Humidity</b>                     | 95 % at 55 °C                                                                         |
| <b>Ambient Air Temperature For Operation</b> | -25...60 °C                                                                           |
| <b>Ambient Air Temperature For Storage</b>   | -40...70 °C                                                                           |

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type Of Package 1</b>       | PCE     |
| <b>Number Of Units In Package 1</b> | 1       |
| <b>Package 1 Height</b>             | 8.5 cm  |
| <b>Package 1 Width</b>              | 8 cm    |
| <b>Package 1 Length</b>             | 10.4 cm |

|                              |          |
|------------------------------|----------|
| Package 1 Weight             | 446 g    |
| Unit Type Of Package 2       | BB1      |
| Number Of Units In Package 2 | 3        |
| Package 2 Height             | 10 cm    |
| Package 2 Width              | 11 cm    |
| Package 2 Length             | 25 cm    |
| Package 2 Weight             | 1.4 kg   |
| Unit Type Of Package 3       | S03      |
| Number Of Units In Package 3 | 18       |
| Package 3 Height             | 30 cm    |
| Package 3 Width              | 30 cm    |
| Package 3 Length             | 40 cm    |
| Package 3 Weight             | 8.861 kg |

# 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.

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Transparency   RoHS/REACH

## Well-being performance

 Rohs Exemption Information   [Yes](#)

## 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      | <a href="#">End of Life Information</a>                                                                                     |