

## Product data sheet

### Characteristics

# A9D61820

Acti9, Residual current breaker with overcurrent protection (RCBO), Acti9 iC60N RCBO, 1P + Ns, 20A, 30mA, A type, 6000A



### Main

|                             |   |
|-----------------------------|---|
| Circuit breaker application | Distribution  |
| Range                       | Acti9   |
| Product name                | Acti9 iC60 RCBO   |
| Product or component type   | Residual current breaker with overcurrent protection (RCBO) |
| Device short name           | IC60N RCBO  |
| Poles description           | 1P + Ns   |
| [In] rated current          | 20 A at 50 °C   |
| Earthing system             | TN  |
| Curve code                  | C   |
| Earth-leakage sensitivity   | 30 mA   |
| Breaking capacity           | 6000 A Icn at 230/240 V AC 50/60 Hz                         |

### Complementary

|  |   |
|--|---|
| Neutral position                                 | Left  |
| Number of protected poles                        | 1   |
| Device location in system                        | Outgoer                                     |
| Network frequency                                | 50 Hz                                       |
| Network type                                     | AC  |
| Trip unit technology                             | Thermal-magnetic                            |
| [Ue] rated operational voltage                   | 230/240 V AC 50/60 Hz                       |
| Residual current tripping technology             | Voltage dependent                           |
| Earth-leakage protection time delay              | Instantaneous                               |
| Earth-leakage protection class                   | Type A                                      |
| [Icw] rated short-time withstand current         | Icw: 250 A during 8/20 μs impulse withstand |
| [Ics] rated service breaking capacity            | 6000 A at 230/240 V AC 50/60 Hz             |
| Limitation class                                 | 3   |
| [Ui] rated insulation voltage                    | 400 V AC 50/60 Hz                           |
| [Uimp] rated impulse withstand voltage           | 4 kV  |
| Surge current                                    | 250 A                                       |
| Suitability for isolation                        | Yes   |
| Contact position indicator                       | Yes   |
| Control type                                     | Toggle                                      |
| Local signalling                                 | ON/OFF indication                           |
| Mounting mode                                    | Clip-on                                     |
| Mounting support                                 | DIN rail                                    |
| Comb busbar and distribution block compatibility | NO  |
| 9 mm pitches                                     | 2   |
| Height   | 110 mm                                      |
| Width  | 18 mm                                       |
| Depth  | 77.5 mm                                     |
| Net weight                                       | 205 g                                       |

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|                             |  |
|-----------------------------|--|
| Colour                      | White  |
| Mechanical durability       | 20000 cycles   |
| Electrical durability       | 5000 cycles  |
| Provision for padlocking    | Padlockable with padlock Ø 4 mm  |
| Locking options description | ON/OFF locking facilities  |
| Connections - terminals     | Screw clamp terminal (top) 1...25 mm <sup>2</sup> rigid without cable end<br>Screw clamp terminal (top) 1...16 mm <sup>2</sup> flexible<br>Screw clamp terminal (bottom) 1...16 mm <sup>2</sup> rigid without cable end<br>Screw clamp terminal (bottom) 1...10 mm <sup>2</sup> flexible |
| Wire stripping length       | Power circuit: 13 mm for bottom connection<br>Power circuit: 14 mm for top connection  |
| Tightening torque           | Power circuit: 3.5 N.m top<br>Power circuit: 2 N.m bottom  |
| Earth-leakage protection    | Integrated   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | AS/NZS 61009.1<br>IEC 61009-2-2<br>IEC 61009-1 |
| IP degree of protection               | IP20   |
| Tropicalisation                       | 2  |
| Relative humidity                     | 95 % at 55 °C                                  |
| Ambient air temperature for operation | -15...60 °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             | 7.5 cm     |
| Package 1 Width              | 9.5 cm     |
| Package 1 Length             | 1.8 cm     |
| Package 1 Weight             | 211 g      |
| Unit Type of Package 2       | BB1        |
| Number of Units in Package 2 | 34         |
| Package 2 Height             | 15 cm      |
| Package 2 Width              | 29.2 cm    |
| Package 2 Length             | 39.8 cm    |
| Package 2 Weight             | 7.896 kg   |
| Unit Type of Package 3       | P12        |
| Number of Units in Package 3 | 1088       |
| Package 3 Height             | 70 cm      |
| Package 3 Width              | 120 cm     |
| Package 3 Length             | 80 cm      |
| Package 3 Weight             | 229.568 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product                         |
| REACH Regulation           | <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| Sustainable packaging      | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information | <a href="#">Yes</a>                           |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |