# Product data sheet

Specifications




## Residual current breaker with overcurrent protection (RCBO), Acti9 iDPN N Vigi, 1P+N, 10A, C curve, 6000A, AC type, 30mA

A9D31610

## Main

| | |
|---|---|
| **Range** | Acti9 |
| **Product name** | Acti9 iDPN Vigi |
| **Product or component type** | Residual current breaker with overcurrent protection (RCBO) |
| **Device short name** | iDPN N Vigi |
| **Device application** | Distribution |
| **Poles description** | 1P + N |
| **Number of protected poles** | 1 |
| **Neutral position** | Left |
| **[In] rated current** | 10 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 AC |
| **Breaking capacity** | 6000 A Icn at 220...240 V AC 50 Hz conforming to EN/IEC 61009-2-1 |
| **Suitability for isolation** | Yes conforming to EN/IEC 60947-2 |

## Complementary

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|---|---|
| **Device location in system** | Outgoer |
| **Network frequency** | 50 Hz |
| **[Ue] rated operational voltage** | 220...240 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 220...240 V AC 50 Hz conforming to EN/IEC 61009-2-1 |
| **Rated breaking and making capacity** | Idm 6000 A at 220...240 V AC 50 Hz conforming to EN/IEC 61009-2-1 |
| **Limitation class** | 3 conforming to EN/IEC 61009-2-1 |

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

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|---|---|
| **[Ui] rated insulation voltage** | 400 V AC 50 Hz |
| **[Uimp] rated impulse withstand voltage** | 4 kV |
| **Contact position indicator** | Yes |
| **Control type** | Toggle |
| **Local signalling** | ON, OFF, fault trip |
| **Mounting mode** | Clip-on |
| **Mounting support** | DIN rail |
| **Comb busbar and distribution block compatibility** | Top or bottom: YES |
| **Connection pitch** | 9 mm between phase and neutral |
| **9 mm pitches** | 4 |
| **Height** | 85 mm |
| **Width** | 36 mm |
| **Depth** | 73 mm |
| **Net weight** | 125 g |
| **Colour** | White |
| **Mechanical durability** | 20000 cycles |
| **Electrical durability** | 20000 cycles |
| **Locking options description** | Padlocking device |
| **Connections - terminals** | Single terminal top or bottom 1…16 mm² rigid<br>Single terminal top or bottom 1…10 mm² flexible<br>Single terminal top or bottom 1…10 mm² flexible with ferrule |
| **Wire stripping length** | 15 mm for top or bottom connection |
| **Tightening torque** | 2 N.m top or bottom |
| **Earth-leakage protection** | Integrated |

## Environment

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|---|---|
| **Standards** | EN/IEC 61009-2-1 |
| **Product certifications** | VDE<br>GOST |
| **IP degree of protection** | IP20 conforming to IEC 60529<br>IP40 (modular enclosure) conforming to IEC 60529 |
| **Pollution degree** | 3 |
| **Overvoltage category** | III conforming to IEC 60364 |
| **Electromagnetic compatibility** | 8/20 µs impulse withstand, 250 A conforming to EN/IEC 61009-2-1 |
| **Tropicalisation** | 2 conforming to IEC 60068-1 |
| **Relative humidity** | 95 % at 55 °C |
| **Ambient air temperature for operation** | -5…60 °C |
| **Ambient air temperature for storage** | -40…85 °C |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 4.0 cm |

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|---|---|
| **Package 1 Width** | 8.5 cm |
| **Package 1 Length** | 10.0 cm |
| **Package 1 Weight** | 213 g |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 54 |
| **Package 2 Height** | 30.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 11.943 kg |
| **Unit Type of Package 3** | P12 |
| **Number of Units in Package 3** | 432 |
| **Package 3 Height** | 44.4 cm |
| **Package 3 Width** | 80 cm |
| **Package 3 Length** | 120 cm |
| **Package 3 Weight** | 107.544 kg |

## Offer Sustainability

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|---|---|
| **Sustainable offer status** | Green Premium product |
| **REACh Regulation** | REACh Declaration |
| **EU RoHS Directive** | Compliant<br>EU RoHS Declaration |
| **Mercury free** | Yes |
| **China RoHS Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **RoHS exemption information** | Yes |
| **Environmental Disclosure** | Product Environmental Profile |
| **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 plastic parts product |

## Contractual warranty

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| **Warranty** | 18 months |

### Recommended replacement(s)