# Product datasheet

Specifications



## Acti 9 iDPN N Vigi - RCBO - 1P+N - 16A - C Curve - 6000A - 30mA - type AC

A9D31616

## 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** | 16 A |
| **Network type** | AC |
| **Network frequency** | 50 Hz |
| **Trip unit technology** | Thermal-magnetic |
| **Curve code** | C |
| **Earth-leakage sensitivity** | 30 mA |
| **Suitability for isolation** | Yes conforming to EN/IEC 60947-2 |

## Complementary

| | |
|---|---|
| **Device location in system** | Outgoer |
| **[Ue] rated operational voltage** | 230...240 V AC 50 Hz |
| **Magnetic tripping limit** | 5...10 x In |
| **Residual current tripping technology** | Voltage independent |
| **Earth-leakage protection time delay** | Instantaneous |
| **Earth-leakage protection class** | Type AC |
| **Breaking capacity** | 6000 A Icn at 230...240 V AC 50 Hz conforming to EN/IEC 61009-2-1 |
| **[Ics] rated service breaking capacity** | 6000 A 100 % x Icn at 230...240 V AC 50 Hz conforming to EN/IEC 61009-2-1 |
| **Rated breaking and making capacity** | Idm 6000 A at 230...240 V AC 50 Hz conforming to EN/IEC 61009-2-1 |
| **Limitation class** | 3 conforming to EN/IEC 61009-2-1 |
| **[Ui] rated insulation voltage** | 400 V AC 50 Hz |
| **[Uimp] rated impulse withstand voltage** | 4 kV |
| **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** | 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 |
| **Product 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

| | |
|---|---|
| **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

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 4.000 cm |
| **Package 1 Width** | 8.300 cm |
| **Package 1 Length** | 10.000 cm |
| **Package 1 Weight** | 208.000 g |
| **Unit Type of Package 2** | S03 |

| | |
|---|---|
| **Number of Units in Package 2** | 54 |
| **Package 2 Height** | 30.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 11.768 kg |
| **Unit Type of Package 3** | P12 |
| **Number of Units in Package 3** | 432 |
| **Package 3 Height** | 45.000 cm |
| **Package 3 Width** | 80.000 cm |
| **Package 3 Length** | 120.000 cm |
| **Package 3 Weight** | 105.000 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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

| | |
|---|---|
| Total lifecycle Carbon footprint | **3 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **1 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **2 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.3 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Packaging

| | |
|---|---|
| Packaging made with recycled cardboard | **No** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **Ed70c451-eb98-4beb-bfa0-d83cf974f40d** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **50** |
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |