# Product data sheet
## Characteristics

# A9D41610
Residual current breaker with overcur. prot. (RCBO), Acti9 iDPN N Vigi, 1P+N, 10A, C curve, 6000A, AC type, 300mA



## 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 |
| Network frequency | 50 Hz |
| Trip unit technology | Thermal-magnetic |
| Curve code | C |
| Earth-leakage sensitivity | 300 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 |
| 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[RETURN]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 | 8.0 Cm |
| Package 1 Width | 4.0 Cm |
| Package 1 Length | 10.0 Cm |
| Package 1 Weight | 202 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 | 11.349 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 | 102.792 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 50 |
| Total lifecycle Carbon footprint | 16 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1.31734481733029 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.0264183438867267 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |

| | |
|---|---|
| Carbon footprint of the installation phase [A5] | 0.0536702424081959 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 14.5410697674418 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 15 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.446538913393913 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.4 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 16 |
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | Yes |
| SCIP Number | Ed70c451-eb98-4beb-bfa0-d83cf974f40d |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| OECD PFAS Regulation | Item contains PFAS Chemicals |
| POP Directive | No POPs |
| Halogen-free status | Halogen free plastic parts product |
| PVC free | Yes |
| Silicone-free | No |
| 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 a |

## Contractual warranty

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

Product Life Status : Commercialised