

# Product data sheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Acti9 iDPNa Vigi, 1P+N, 20A, C curve, 4500A, AC type, 30mA

A9D34620

## Main

|                                     |   |
|-------------------------------------|---|
| Range                               | Acti9   |
| Product name                        | Acti9 iDPN Vigi   |
| Product or component type           | Residual current breaker with overcurrent protection (RCBO)       |
| Device short name                   | iDPNa Vigi  |
| Device application                  | Distribution  |
| Poles description                   | 1P + N  |
| Number of protected poles           | 1   |
| Neutral position                    | Left  |
| [In] rated current                  | 20 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                   | 4500 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

|                                       |   |
|---------------------------------------|---|
| 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 | 4500 A 100 % x Icn at 220...240 V AC 50 Hz conforming to EN/IEC 61009-2-1     |
| Rated breaking and making capacity    | I <sub>dm</sub> 4500 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  |

|   |   |
|---|---|
| <b>[Ui] rated insulation voltage</b>                    | 400 V AC 50 Hz  |
| <b>[Uimp] rated impulse withstand voltage</b>           | 4 kV  |
| <b>Contact position indicator</b>                       | Yes   |
| <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  |
| <b>Connection pitch</b>                                 | 9 mm between phase and neutral  |
| <b>9 mm pitches</b>                                     | 4   |
| <b>Height</b>   | 85 mm   |
| <b>Width</b>  | 36 mm   |
| <b>Depth</b>  | 73 mm   |
| <b>Net weight</b>                                       | 125 g   |
| <b>Colour</b>   | White   |
| <b>Mechanical durability</b>                            | 20000 cycles  |
| <b>Electrical durability</b>                            | 20000 cycles  |
| <b>Locking options description</b>                      | Padlocking device   |
| <b>Connections - terminals</b>                          | Single terminal top or bottom 1...16 mm <sup>2</sup> rigid<br>Single terminal top or bottom 1...10 mm <sup>2</sup> flexible<br>Single terminal top or bottom 1...10 mm <sup>2</sup> flexible with ferrule |
| <b>Wire stripping length</b>                            | 15 mm for top or bottom connection  |
| <b>Tightening torque</b>                                | 2 N.m top or bottom   |
| <b>Earth-leakage protection</b>                         | Integrated  |

## Environment

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

## Packing Units

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type of Package 1</b>       | Db     |
| <b>Number of Units in Package 1</b> | 1      |
| <b>Package 1 Height</b>             | 4.0 cm |
| <b>Package 1 Width</b>              | 8.5 cm |

|                              |            |
|------------------------------|------------|
| Package 1 Length             | 10.0 cm    |
| Package 1 Weight             | 208 g      |
| Unit Type of Package 2       | Doboz      |
| 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             | 11.660 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             | 105.276 kg |

## Offer Sustainability

|                             |   |
|-----------------------------|---|
| Sustainable offer status    | Green Premium product   |
| REACH Regulation            | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive           | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free                | Yes   |
| China RoHS Regulation       | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| RoHS exemption information  | Yes   |
| 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 |
| Halogen content performance | Halogen free plastic parts product  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Recommended replacement(s)