

# Product Datasheet

## Characteristic

# A9D56616

Residual current breaker with  
overcurrent protection (RCBO), Acti9  
iDPN N Vigî, 1P+N, 16A, B curve, 6000A,  
A type, 30mA



## Main

|                                     |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Range                               | Acti9                                                             |
| Product name                        | Acti9 iDPN N Vigî                                                 |
| product or component type           | Residual current breaker with overcurrent protection (RCBO)       |
| Device short name                   | iDPN N Vigî                                                       |
| Device application                  | Distribution                                                      |
| poles description                   | 1P + N                                                            |
| Number of protected poles           | 1                                                                 |
| Neutral position                    | Left                                                              |
| [In] rated current                  | 16 A                                                              |
| Network type                        | AC                                                                |
| Trip unit technology                | Thermal-magnetic                                                  |
| Curve code                          | B                                                                 |
| Earth-leakage sensitivity           | 30 mA                                                             |
| Earth-leakage protection time delay | Instantaneous                                                     |
| Earth-leakage protection class      | Type A                                                            |
| Breaking capacity                   | 6000 A Icn at 230...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         | 230...240 V AC 50 Hz                                                      |
| Magnetic tripping limit                | 3...5 x In                                                                |
| Residual current tripping technology   | Voltage independent                                                       |
| [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 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 |
| 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>KEMA                                                                      |
| 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 | -25...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             | 7.500 cm  |
| Package 1 Width              | 3.600 cm  |
| Package 1 Length             | 8.500 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             | 12.231 kg |

## Offer Sustainability

|                            |                                                                             |
|----------------------------|-----------------------------------------------------------------------------|
| REACH Regulation           | Reference contains Substances of Very High Concern above the threshold      |
| EU RoHS Directive          | Compliant with Exemptions                                                   |
| Mercury free               | Yes                                                                         |
| China RoHS Regulation      | Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes                                                                         |

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Environmental Disclosure    | ENVPEP111021EN                                                                                                              |
| 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                                                                                          |