

# Product data sheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Acti9 iCV40N, 3P+N, 16A, B curve, 6000A, A type, 30mA

A9DG3716

## Main

|                                     |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| Range                               | Acti9                                                          |
| Product name                        | Acti9 iCV40                                                    |
| Product or component type           | Residual current breaker with overcurrent protection (RCBO)    |
| Device short name                   | iCV40N                                                         |
| Device application                  | Distribution                                                   |
| Poles description                   | 3P + N                                                         |
| Number of protected poles           | 3                                                              |
| 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 400 V AC 50/60 Hz conforming to EN/IEC 61009-2-1 |
| Suitability for isolation           | Yes conforming to EN/IEC 60947-2                               |
| Quality labels                      | VDE<br>EAC                                                     |

## Complementary

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Device location in system             | Outgoer                                                                |
| Network frequency                     | 50/60 Hz                                                               |
| [Ue] rated operational voltage        | 400 V AC 50/60 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 400 V AC 50/60 Hz conforming to EN/IEC 61009-2-1 |

|                                                  |                                                                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Rated breaking and making capacity               | Idm 3000 A at 400 V AC 50/60 Hz conforming to EN/IEC 61009-2-1                                                  |
| Limitation class                                 | 3 conforming to EN/IEC 61009-2-1                                                                                |
| [Ui] rated insulation voltage                    | 440 V AC 50/60 Hz                                                                                               |
| [Uimp] rated impulse withstand voltage           | 4 kV                                                                                                            |
| Contact position indicator                       | Yes                                                                                                             |
| Control type                                     | Toggle                                                                                                          |
| Local signalling                                 | ON/OFF indication<br>Fault indication                                                                           |
| Mounting mode                                    | Clip-on                                                                                                         |
| Mounting support                                 | DIN rail                                                                                                        |
| Comb busbar and distribution block compatibility | Top or bottom: tooth                                                                                            |
| Connection pitch                                 | 18 mm between phases<br>9 mm between phase and neutral                                                          |
| 9 mm pitches                                     | 10                                                                                                              |
| Height                                           | 93 mm                                                                                                           |
| Width                                            | 90 mm                                                                                                           |
| Depth                                            | 73 mm                                                                                                           |
| Product weight                                   | 500 g                                                                                                           |
| Colour                                           | White                                                                                                           |
| Mechanical durability                            | 20000 cycles                                                                                                    |
| Electrical durability                            | 20000 cycles                                                                                                    |
| Locking options description                      | Padlocking device<br>Sealable                                                                                   |
| Connections - terminals                          | Tunnel type terminals top or bottom 1...16 mm² rigid<br>Tunnel type terminals top or bottom 1...10 mm² flexible |
| Wire stripping length                            | 14 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                | CE                                                                               |
| 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 61009-1                    |
| Relative humidity                     | 95 % at 55 °C                                                                    |
| Operating altitude                    | 2000 m                                                                           |
| 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             | 8.5 cm  |
| Package 1 Width              | 12.5 cm |
| Package 1 Length             | 11.2 cm |
| Package 1 Weight             | 565.0 g |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 16      |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 9.45 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                                                                                                                         |
| RoHS exemption information  | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation       | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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 & cables product                                                                                 |

Recommended replacement(s)