

# Product data sheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Acti9 iCV40, 1P+N, 20A, C curve, 4500A, AC type, 30mA

A9DE2620

## Main

|                                     |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| Range                               | Acti9                                                          |
| Product name                        | Acti9 iCV40                                                    |
| Product or component type           | Residual current breaker with overcurrent protection (RCBO)    |
| Device short name                   | iCV40                                                          |
| 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 230 V AC 50/60 Hz conforming to EN/IEC 61009-2-1 |
| Suitability for isolation           | Yes conforming to EN/IEC 60947-2                               |
| Quality labels                      | IMQ<br>VDE                                                     |

## Complementary

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Device location in system             | Outgoer                                                                |
| Network frequency                     | 50/60 Hz                                                               |
| [Ue] rated operational voltage        | 230 V AC 50/60 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 230 V AC 50/60 Hz conforming to EN/IEC 61009-2-1 |

|                                                         |                                                                                                                          |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Rated breaking and making capacity</b>               | Idm 4500 A at 230 V AC 50/60 Hz conforming to EN 61009-2-1<br>Idm 500 A at 230 V AC 50/60 Hz conforming to IEC 61009-2-1 |
| <b>Limitation class</b>                                 | 3 conforming to EN/IEC 61009-2-1                                                                                         |
| <b>[Ui] rated insulation voltage</b>                    | 400 V AC 50/60 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>                                 | Fault indication<br>ON/OFF indication                                                                                    |
| <b>Mounting mode</b>                                    | Clip-on                                                                                                                  |
| <b>Mounting support</b>                                 | DIN rail                                                                                                                 |
| <b>Comb busbar and distribution block compatibility</b> | Top or bottom: tooth                                                                                                     |
| <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>Product weight</b>                                   | 210 g                                                                                                                    |
| <b>Colour</b>                                           | White                                                                                                                    |
| <b>Mechanical durability</b>                            | 20000 cycles                                                                                                             |
| <b>Electrical durability</b>                            | 20000 cycles                                                                                                             |
| <b>Locking options description</b>                      | Sealable<br>Padlocking device                                                                                            |
| <b>Connections - terminals</b>                          | Tunnel type terminals top or bottom 1...16 mm² rigid<br>Tunnel type terminals top or bottom 1...10 mm² flexible          |
| <b>Wire stripping length</b>                            | 14 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>                | CE                                                                               |
| <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>Relative humidity</b>                     | 95 % at 55 °C                                                                    |
| <b>Operating altitude</b>                    | 2000 m                                                                           |
| <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> | PCE |
|-------------------------------|-----|

|                              |            |
|------------------------------|------------|
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 4.0 cm     |
| Package 1 Width              | 8.2 cm     |
| Package 1 Length             | 10.0 cm    |
| Package 1 Weight             | 209 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             | 11.727 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             | 105.816 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 product                                                                                          |

Recommended replacement(s)