

# Product data sheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Acti9 iCV40N, 3P+N, 20A, C curve, 6000A, AC type, 30mA

A9DE3720

## 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                  | 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                   | 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                      | EAC<br>IMQ   |

## Complementary

|  |  |
|--|--|
| Complementary                          | Outgoer  |
| Network Frequency                      | 50/60 Hz   |
| [Ue] Rated Operational Voltage         | 400 V AC 50/60 Hz  |
| Magnetic Tripping Limit                | 5...10 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 61009-2-1<br>Idm 500 A at 400 V AC 50/60 Hz conforming to 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   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|  |   |
|--|---|
| 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   |
| Net 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 | -5...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             | 8.8 cm  |
| Package 1 Width              | 11.2 cm |

|                              |          |
|------------------------------|----------|
| Package 1 Length             | 12.5 cm  |
| Package 1 Weight             | 579.0 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             | 9.668 kg |

## Sustainability

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Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information Yes

✓ Halogen Free Plastic Parts & Cables  
Product

## Certifications & Standards

|                          |   |
|--------------------------|---|
| Reach Regulation         | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive        | Compliant with Exemptions   |
| 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 |
| Circularity Profile      | No need of specific recycling operations  |