

# Product datasheet

Specifications



## Miniature circuit-breaker, Acti9 iC60L, 1P, 50 A, C curve, 15 kA (IEC 60947-2)

A9F94150

### Main

|                           |   |
|---------------------------|---|
| Device application        | Distribution  |
| Range                     | Acti9   |
| Product name              | Acti9 iC60  |
| Product or component type | Miniature circuit-breaker   |
| Device short name         | iC60L   |
| Poles description         | 1P  |
| Number of protected poles | 1   |
| [In] rated current        | 50 A  |
| Network type              | DC<br>AC  |
| Trip unit technology      | Thermal-magnetic  |
| Curve code                | C   |
| Breaking capacity         | 15 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>30 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>70 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 kA Icu at 60...72 V DC conforming to EN/IEC 60947-2<br>25 kA Icu at 12...60 V DC conforming to EN/IEC 60947-2 |
| Utilisation category      | Category A conforming to EN 60947-2<br>Category A conforming to IEC 60947-2   |
| Suitability for isolation | Yes conforming to EN 60947-2<br>Yes conforming to IEC 60947-2   |
| Standards                 | IEC 60947-2<br>EN 60947-2   |

### Complementary

|                                       |   |
|---------------------------------------|---|
| Network frequency                     | 50/60 Hz  |
| Magnetic tripping limit               | 8 x In +/- 20 %   |
| [Ics] rated service breaking capacity | 7.5 kA 50 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 50 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>35 kA 50 % conforming to EN 60947-2 - 12...60 V AC 50/60 Hz<br>35 kA 50 % conforming to IEC 60947-2 - 12...60 V AC 50/60 Hz<br>15 kA 50 % conforming to IEC 60947-2 - 100...133 V AC 50/60 Hz<br>15 kA 50 % conforming to EN 60947-2 - 100...133 V AC 50/60 Hz<br>20 kA 100 % conforming to EN 60947-2 - 72 V DC<br>20 kA 100 % conforming to IEC 60947-2 - 72 V DC<br>25 kA 100 % conforming to EN 60947-2 - 12...60 V DC<br>25 kA 100 % conforming to IEC 60947-2 - 12...60 V DC |
| [Ui] rated insulation voltage         | 500 V AC 50/60 Hz conforming to EN 60947-2<br>500 V AC 50/60 Hz conforming to IEC 60947-2   |

|   |   |
|---|---|
| <b>[Uimp] rated impulse withstand voltage</b>           | 6 kV conforming to EN 60947-2<br>6 kV conforming to IEC 60947-2   |
| <b>Contact position indicator</b>                       | Yes   |
| <b>Control type</b>                                     | Toggle  |
| <b>Local signalling</b>                                 | Trip indicator  |
| <b>Mounting mode</b>                                    | Fixed   |
| <b>Mounting support</b>                                 | DIN rail  |
| <b>Comb busbar and distribution block compatibility</b> | Top or bottom: YES  |
| <b>9 mm pitches</b>                                     | 2   |
| <b>Height</b>   | 85 mm   |
| <b>Width</b>  | 18 mm   |
| <b>Depth</b>  | 78.5 mm   |
| <b>Product weight</b>                                   | 0.215 kg  |
| <b>Colour</b>   | White   |
| <b>Mechanical durability</b>                            | 20000 cycles  |
| <b>Electrical durability</b>                            | 10000 cycles  |
| <b>Connections - terminals</b>                          | Single terminal (top or bottom) 1...35 mm <sup>2</sup> rigid<br>Single terminal (top or bottom) 1...25 mm <sup>2</sup> flexible |
| <b>Wire stripping length</b>                            | 14 mm for top or bottom connection  |
| <b>Tightening torque</b>                                | 3.5 N.m top or bottom   |
| <b>Earth-leakage protection</b>                         | Without   |

## Environment

|  |   |
|--|---|
| <b>IP degree of protection</b>               | IP20 conforming to IEC 60529<br>IP20 conforming to EN 60529 |
| <b>Pollution degree</b>                      | 3 conforming to EN 60947-2<br>3 conforming to IEC 60947-2   |
| <b>Overvoltage category</b>                  | IV  |
| <b>Tropicalisation</b>                       | 2 conforming to IEC 60068-1                                 |
| <b>Relative humidity</b>                     | 95 % at 55 °C   |
| <b>Operating altitude</b>                    | 0...2000 m  |
| <b>Ambient air temperature for operation</b> | -35...70 °C   |
| <b>Ambient air temperature for storage</b>   | -40...85 °C   |

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type of Package 1</b>       | PCE     |
| <b>Number of Units in Package 1</b> | 1       |
| <b>Package 1 Height</b>             | 7.0 cm  |
| <b>Package 1 Width</b>              | 1.8 cm  |
| <b>Package 1 Length</b>             | 9.5 cm  |
| <b>Package 1 Weight</b>             | 134.0 g |
| <b>Unit Type of Package 2</b>       | BB1     |
| <b>Number of Units in Package 2</b> | 12      |
| <b>Package 2 Height</b>             | 7.7 cm  |

|                              |           |
|------------------------------|-----------|
| Package 2 Width              | 9.5 cm    |
| Package 2 Length             | 22.0 cm   |
| Package 2 Weight             | 1.678 kg  |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 132       |
| Package 3 Height             | 30.0 cm   |
| Package 3 Width              | 30.0 cm   |
| Package 3 Length             | 40.0 cm   |
| Package 3 Weight             | 18.221 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| RoHS exemption information | <a href="#">Yes</a>   |
| 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 |

## Contractual warranty

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

## Recommended replacement(s)