

## Product data sheet

### Characteristics

# A9F93150

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



### Main

|                           |                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device application        | Distribution                                                                                                                                                                                                                                                                                                                  |
| Range                     | Acti 9                                                                                                                                                                                                                                                                                                                        |
| 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                | B                                                                                                                                                                                                                                                                                                                             |
| 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                | 4 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Uimp] rated impulse withstand voltage | 6 KV conforming to EN 60947-2<br>6 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Contact position indicator             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local signalling                       | Trip indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mounting mode                          | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                  |                                                                                                                                 |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Mounting support                                 | DIN rail                                                                                                                        |
| Comb busbar and distribution block compatibility | Top or bottom: YES                                                                                                              |
| 9 mm pitches                                     | 2                                                                                                                               |
| Height                                           | 85 mm                                                                                                                           |
| Width                                            | 18 mm                                                                                                                           |
| Depth                                            | 78.5 mm                                                                                                                         |
| Net weight                                       | 0.215 kg                                                                                                                        |
| Colour                                           | White                                                                                                                           |
| Mechanical durability                            | 20000 cycles                                                                                                                    |
| Electrical durability                            | 10000 cycles                                                                                                                    |
| Connections - terminals                          | 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 |
| Wire stripping length                            | 14 mm for top or bottom connection                                                                                              |
| Tightening torque                                | 3.5 N.m top or bottom                                                                                                           |
| Earth-leakage protection                         | Without                                                                                                                         |

## Environment

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP20 conforming to EN 60529 |
| Pollution degree                      | 3 conforming to EN 60947-2<br>3 conforming to IEC 60947-2   |
| Overvoltage category                  | IV                                                          |
| Tropicalisation                       | 2 conforming to IEC 60068-1                                 |
| Relative humidity                     | 95 % at 55 °C                                               |
| Operating altitude                    | 0...2000 m                                                  |
| Ambient air temperature for operation | -35...70 °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 Weight             | 135.0 g   |
| Package 1 Height             | 1.7 cm    |
| Package 1 width              | 7.4 cm    |
| Package 1 Length             | 9.5 cm    |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 12        |
| Package 2 Weight             | 1.68 kg   |
| Package 2 Height             | 7.7 cm    |
| Package 2 width              | 9.7 cm    |
| Package 2 Length             | 22 cm     |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 132       |
| Package 3 Weight             | 18.967 kg |
| Package 3 Height             | 30 cm     |
| Package 3 width              | 30 cm     |
| Package 3 Length             | 40 cm     |

## Offer Sustainability

|                          |                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product                                                                                                             |
| REACH Regulation         |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC       | Yes                                                                                                                               |
| EU RoHS Directive        | Compliant  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free   | Yes                                                                                                                               |
| Mercury free             | Yes                                                                                                                               |

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| RoHS exemption information |  <a href="#">Yes</a>                            |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</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 |
|----------|-----------|