

## Product data sheet

### Characteristics

# A9F45150

## Acti9 iC60N 1P 50A D Miniature Circuit Breaker



### Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                     | Acti 9                                                                                                                                                                                                                                                                                                                                                                                  |
| Product name              | Disbo iC60                                                                                                                                                                                                                                                                                                                                                                              |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                                                                               |
| Device short name         | IC60N                                                                                                                                                                                                                                                                                                                                                                                   |
| Poles description         | 1P                                                                                                                                                                                                                                                                                                                                                                                      |
| Number of protected poles | 1                                                                                                                                                                                                                                                                                                                                                                                       |
| [In] rated current        | 50 A                                                                                                                                                                                                                                                                                                                                                                                    |
| Network type              | AC/DC                                                                                                                                                                                                                                                                                                                                                                                   |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                        |
| Curve code                | D                                                                                                                                                                                                                                                                                                                                                                                       |
| Breaking capacity         | 15 KA Icu at 12...48 V DC conforming to EN/IEC 60947-2<br>6 KA Icu at 72 V DC conforming to EN/IEC 60947-2<br>6000 A Icn at 240 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>36 KA Icu at 10...60 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 KA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 |
| Utilisation category      | Category A conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                 |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ue] rated operational voltage         | 240 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                           |
| Magnetic tripping limit                | 12 x In +/- 20 %                                                                                                                                                                                                                                                                                                                                                                            |
| [Ics] rated service breaking capacity  | 27 KA 75 % conforming to EN/IEC 60947-2 - 10...60 V AC 50/60 Hz<br>15 KA 75 % conforming to EN/IEC 60947-2 - 100...133 V AC 50/60 Hz<br>7.5 KA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>6000 A 100 % conforming to EN/IEC 60898-1 - 240 V AC 50/60 Hz<br>15 KA 100 % conforming to EN/IEC 60947-2 - 12...48 V DC<br>6 KA 100 % conforming to EN/IEC 60947-2 - 72 V DC |
| Limitation class                       | 3 conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                              |
| [Ui] rated insulation voltage          | 500 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                           |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                           |
| Contact position indicator             | Yes                                                                                                                                                                                                                                                                                                                                                                                         |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                                                                                                      |
| Local signalling                       | Trip indicator                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting mode                          | Clip-on                                                                                                                                                                                                                                                                                                                                                                                     |
| Mounting support                       | Rail                                                                                                                                                                                                                                                                                                                                                                                        |
| 9 mm pitches                           | 2                                                                                                                                                                                                                                                                                                                                                                                           |
| Height                                 | 85 mm                                                                                                                                                                                                                                                                                                                                                                                       |
| Width                                  | 18 mm                                                                                                                                                                                                                                                                                                                                                                                       |
| Depth                                  | 78.5 mm                                                                                                                                                                                                                                                                                                                                                                                     |
| Net weight                             | 0.125 kg                                                                                                                                                                                                                                                                                                                                                                                    |
| Colour                                 | White                                                                                                                                                                                                                                                                                                                                                                                       |

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| Mechanical durability    | 20000 cycles                                                                                            |
| Electrical durability    | 10000 cycles                                                                                            |
| Provision for padlocking | Padlockable                                                                                             |
| Connections - terminals  | Single terminal (top or bottom) 1...35 mm² rigid<br>Single terminal (top or bottom) 1...25 mm² flexible |
| Wire stripping length    | 14 mm for top or bottom connection                                                                      |
| Tightening torque        | 3.5 N.m top or bottom                                                                                   |
| Earth-leakage protection | Separate block                                                                                          |

## Environment

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Standards                             | EN/IEC 60898-1<br>EN/IEC 60947-2 |
| IP degree of protection               | IP20 conforming to IEC 60529     |
| Pollution degree                      | 3 conforming to EN/IEC 60947-2   |
| Tropicalisation                       | 2 conforming to IEC 60068-1      |
| Relative humidity                     | 95 % at 55 °C                    |
| Ambient air temperature for operation | -35...70 °C                      |
| Ambient air temperature for storage   | -40...85 °C                      |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.125 kg |
| Package 1 Height | 0.750 dm |
| Package 1 width  | 0.180 dm |
| Package 1 Length | 0.900 dm |

## 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       |