

# Product Datasheet

## Characteristic

18803

Miniature circuit breaker (MCB), Acti9 NG125L, 3P, 32A, C curve, 50kA (IEC/EN 60947-2)



### Main

|                           |                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product          | NG125                                                                                                                                                                                                                                                                                                                          |
| Range                     | Acti9                                                                                                                                                                                                                                                                                                                          |
| Product name              | Acti9 NG125                                                                                                                                                                                                                                                                                                                    |
| product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                      |
| Device short name         | NG125L                                                                                                                                                                                                                                                                                                                         |
| Device application        | Distribution                                                                                                                                                                                                                                                                                                                   |
| poles description         | 3P                                                                                                                                                                                                                                                                                                                             |
| Number of protected poles | 3                                                                                                                                                                                                                                                                                                                              |
| [In] rated current        | 32 A at 40 °C                                                                                                                                                                                                                                                                                                                  |
| Network type              | DC<br>AC                                                                                                                                                                                                                                                                                                                       |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                               |
| Curve code                | C                                                                                                                                                                                                                                                                                                                              |
| Breaking capacity         | 100 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>40 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>50 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 kA Icu at 500 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>36 kA Icu at <= 375 V DC conforming to EN/IEC 60947-2 |
| Utilisation category      | Category A conforming to IEC 60947-2                                                                                                                                                                                                                                                                                           |
| Suitability for isolation | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                  |

### Complementary

|                                       |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                     | 50/60 Hz                                                                                                                                                                                                                                                                                                                         |
| [Ue] rated operational voltage        | <= 375 V DC<br>380...415 V AC 50/60 Hz<br>500 V AC 50/60 Hz<br>220...240 V AC 50/60 Hz<br>440 V AC 50/60 Hz                                                                                                                                                                                                                      |
| Magnetic tripping limit               | 8 x In +/- 20 %                                                                                                                                                                                                                                                                                                                  |
| [Ics] rated service breaking capacity | 75 kA 75 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>37.5 kA 75 % conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>30 kA 75 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz<br>11.25 kA 75 % conforming to EN/IEC 60947-2 - 500 V AC 50/60 Hz<br>50 kA 100 % conforming to EN/IEC 60947-2 - 375 V DC |
| [Ui] rated insulation voltage         | 690 V AC 50/60 Hz conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                   |

|                                                  |                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage           | 8 kV conforming to EN/IEC 60947-2                                                   |
| Contact position indicator                       | Yes                                                                                 |
| Control type                                     | Manual tripping test<br>Toggle                                                      |
| local signalling                                 | Trip indicator<br>ON/OFF indication                                                 |
| mounting mode                                    | Clip-on                                                                             |
| mounting support                                 | 35 mm symmetrical DIN rail                                                          |
| Mounting position                                | Vertical                                                                            |
| Comb busbar and distribution block compatibility | YES                                                                                 |
| 9 mm pitches                                     | 9                                                                                   |
| Height                                           | 103 mm                                                                              |
| Depth                                            | 81 mm                                                                               |
| Width                                            | 81 mm                                                                               |
| net weight                                       | 0.72 kg                                                                             |
| Mechanical durability                            | 20000 cycles                                                                        |
| Electrical durability                            | 10000 cycles                                                                        |
| Provision for padlocking                         | Padlockable                                                                         |
| Locking options description                      | Integrated padlocking                                                               |
| Connections - terminals                          | Tunnel type terminals1.5...50 mm² rigid<br>Tunnel type terminals1...35 mm² flexible |
| Wire stripping length                            | 20 mm                                                                               |
| Tightening torque                                | 3.5 N.m                                                                             |
| Earth-leakage protection                         | Separate block                                                                      |

## Environment

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Standards                             | EN/IEC 60947-2                  |
| IP degree of protection               | IP20 conforming to IEC 60529    |
| IK degree of protection               | IK05 conforming to EN/IEC 62262 |
| Pollution degree                      | 3 conforming to IEC 60947-2     |
| Overvoltage category                  | IV                              |
| Tropicalisation                       | 2 conforming to IEC 60068-1     |
| Relative humidity                     | 95 % at 55 °C                   |
| Operating altitude                    | 2000 m                          |
| Ambient air temperature for operation | -30...70 °C                     |
| Ambient air temperature for storage   | -40...70 °C                     |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 8.300 cm  |
| Package 1 Width              | 12.400 cm |
| Package 1 Length             | 12.700 cm |
| Package 1 Weight             | 753.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 18        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 13.844 kg |

## Offer Sustainability

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| Sustainable offer status | Green Premium product                                       |
| REACH Regulation         | Free of Substances of Very High Concern above the threshold |
| REACH free of SVHC       | Yes                                                         |

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive          | Compliant                                                                                                                   |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | Pro-active China RoHS declaration (out of China RoHS legal scope)                                                           |
| RoHS exemption information | Yes                                                                                                                         |
| Environmental Disclosure   | ENVPEP1406008EN                                                                                                             |
| Circularity Profile        | ENVEOLI1406008_V1                                                                                                           |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |