



### Main

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| Device application        | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Range                     | Acti 9                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product name              | Acti 9 iC60                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Device short name         | IC60N                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poles description         | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Number of protected poles | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [In] rated current        | 40 A                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Network type              | DC<br>AC                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Type of packing           | Blister                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Curve code                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Breaking capacity         | 6 kA Icu conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz<br>10 kA Icu conforming to EN/IEC 60947-2 - 380...415 V AC 50/60 Hz<br>20 kA Icu conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz<br>10 kA Icu conforming to EN/IEC 60947-2 - <= 250 V DC<br>6000 A Icn conforming to EN/IEC 60898-1 - 400 V AC 50/60 Hz<br>36 kA Icu conforming to EN/IEC 60947-2 - 12...60 V AC 50/60 Hz<br>36 kA Icu conforming to EN/IEC 60947-2 - 100...133 V AC 50/60 Hz |
| 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<br>Yes conforming to EN 60898-1<br>Yes conforming to IEC 60898-1                                                                                                                                                                                                                                                                                                                                 |
| Standards                 | EN 60947-2<br>IEC 60947-2<br>EN 60898-1<br>IEC 60898-1                                                                                                                                                                                                                                                                                                                                                                                                         |

### Complementary

|                                       |                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                     | 50/60 Hz                                                                                                                         |
| Magnetic tripping limit               | 8 x In +/- 20 %                                                                                                                  |
| [Ics] rated service breaking capacity | 6000 A 100 % x Icu conforming to IEC 60898-1 - 400 V AC 50/60 Hz<br>10 kA 100 % x Icu conforming to IEC 60947-2 - 180...250 V DC |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | 10 kA 100 % x Icu conforming to EN 60947-2 - 180...250 V DC<br>6000 A 100 % x Icu conforming to EN 60898-1 - 400 V AC 50/60 Hz<br>4.5 kA 75 % x Icu conforming to IEC 60947-2 - 440 V AC 50/60 Hz<br>15 kA 75 % x Icu conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 75 % x Icu conforming to EN 60947-2 - 380...415 V AC 50/60 Hz<br>4.5 kA 75 % x Icu conforming to EN 60947-2 - 440 V AC 50/60 Hz<br>15 kA 75 % x Icu conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>7.5 kA 75 % x Icu conforming to IEC 60947-2 - 380...415 V AC 50/60 Hz<br>27 kA 75 % x Icu conforming to IEC 60947-2 - 12...133 V AC 50/60 Hz<br>27 kA 75 % x Icu conforming to EN 60947-2 - 12...133 V AC 50/60 Hz |
| Limitation class                                 | 3 conforming to EN 60898-1<br>3 conforming to IEC 60898-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ui] rated insulation voltage                    | 500 V AC 50/60 Hz conforming to IEC 60947-2<br>500 V AC 50/60 Hz conforming to EN 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 | YES top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9 mm pitches                                     | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height                                           | 85 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Width                                            | 72 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Depth                                            | 78.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product weight                                   | 0.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Colour                                           | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mechanical durability                            | 20000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical durability                            | 10000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Connections - terminals                          | Single terminal, top or bottom rigid wire(s) 1...35 mm <sup>2</sup> max<br>Single terminal, top or bottom flexible wire(s) 1...25 mm <sup>2</sup> max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Wire stripping length                            | 14 mm top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tightening torque                                | 3.5 N.m top or bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Earth-leakage protection                         | Separate block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Environment

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| IP degree of protection               | IP20 conforming to EN 60529<br>IP20 conforming to IEC 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 % ( 55 °C )                                              |
| Operating altitude                    | 0...2000 m                                                  |
| Ambient air temperature for operation | -35...70 °C                                                 |
| Ambient air temperature for storage   | -40...85 °C                                                 |