

# A9F73650

Miniature circuit-breaker, Acti9 iC60N, 1P+N,  
50 A, B curve, 6000 A (IEC 60898-1), 10 kA  
(IEC 60947-2)



## Main

|                           |                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device application        | Distribution                                                                                                                                                                                                                                                              |
| Range                     | Acti 9                                                                                                                                                                                                                                                                    |
| Product name              | Acti 9 iC60                                                                                                                                                                                                                                                               |
| Product or component type | Miniature circuit-breaker                                                                                                                                                                                                                                                 |
| Device short name         | IC60N                                                                                                                                                                                                                                                                     |
| Poles description         | 1P + N                                                                                                                                                                                                                                                                    |
| Number of protected poles | 1                                                                                                                                                                                                                                                                         |
| Neutral position          | Left                                                                                                                                                                                                                                                                      |
| [In] rated current        | 50 A                                                                                                                                                                                                                                                                      |
| Network type              | AC                                                                                                                                                                                                                                                                        |
| Trip unit technology      | Thermal-magnetic                                                                                                                                                                                                                                                          |
| Curve code                | B                                                                                                                                                                                                                                                                         |
| Breaking capacity         | 6000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1<br>10 KA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>36 KA Icu at 12...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 |
| Utilisation category      | Category A conforming to EN 60947-2<br>Category A conforming to IEC 60947-2                                                                                                                                                                                               |
| Suitability for isolation | Yes conforming to EN 60898-1<br>Yes conforming to EN 60947-2<br>Yes conforming to IEC 60898-1<br>Yes conforming to IEC 60947-2                                                                                                                                            |
| Standards                 | EN 60898-1<br>IEC 60947-2<br>EN 60947-2<br>IEC 60898-1                                                                                                                                                                                                                    |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Magnetic tripping limit                | 4 x In +/- 20 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [Ics] rated service breaking capacity  | 27 KA 75 % conforming to EN 60947-2 - 12...60 V AC 50/60 Hz<br>7.5 KA 75 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz<br>27 KA 75 % conforming to IEC 60947-2 - 12...60 V AC 50/60 Hz<br>7.5 KA 75 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz<br>15 KA 75 % conforming to IEC 60947-2 - 100...133 V AC 50/60 Hz<br>15 KA 75 % conforming to EN 60947-2 - 100...133 V AC 50/60 Hz<br>6000 A 100 % conforming to EN 60898-1 - 230 V AC 50/60 Hz<br>6000 A 100 % conforming to IEC 60898-1 - 230 V AC 50/60 Hz |
| [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                                     | 4                                                                                                                               |
| Height                                           | 85 mm                                                                                                                           |
| Width                                            | 36 mm                                                                                                                           |
| Depth                                            | 78.5 mm                                                                                                                         |
| Net weight                                       | 0.25 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                         | Separate block                                                                                                                  |

## 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             | 258 g  |
| Package 1 Height             | 7.5 cm |
| Package 1 width              | 3.6 cm |
| Package 1 Length             | 9.4 cm |

## Contractual warranty

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