

## Product data sheet

### Characteristics

# C10N1TM030

Circuit breaker, ComPacT NSX100N AC/DC, 25kA/240VAC, 1 pole, TMD trip unit 30A



### Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX new generation  |
| Device short name                                    | NSX100N   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Distribution  |
| Poles description                                    | 1P  |
| Protected poles description                          | 1D  |
| [In] rated current                                   | 30 A at 40 °C   |
| [Ue] rated operational voltage                       | 277 V AC 50/60 Hz<br>250 V DC 50/60 Hz  |
| Network type   | AC<br>DC  |
| Network frequency                                    | 50/60 Hz  |
| Suitability for isolation                            | Yes conforming to EN/IEC 60947-2  |
| Utilisation category                                 | Category A  |
| [Icu] rated ultimate short-circuit breaking capacity | 25 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 250 V DC conforming to IEC 60947-2 |
| Performance level                                    | N 25 kA 240 V AC  |
| Trip unit name                                       | TM-D  |
| Trip unit technology                                 | Thermal-magnetic  |
| Trip unit protection functions                       | LI  |
| Control type   | Toggle  |
| Circuit breaker mounting mode                        | Fixed   |

### Complementary

|   |   |
|---|---|
| [Ui] rated insulation voltage                       | 750 V AC 50/60 Hz conforming to IEC 60947-2   |
| [Uimp] rated impulse withstand voltage              | 8 kV conforming to IEC 60947-2  |
| [Ics] rated service short-circuit breaking capacity | 25 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 250 V DC conforming to IEC 60947-2 |
| Mechanical durability                               | 20000 cycles  |
| Electrical durability                               | 20000 Cycles at 277 V In/2<br>10000 cycles at 277 V In  |
| Power dissipation per pole                          | 3.94 W  |
| Mounting support                                    | Backplate   |
| Mounting position                                   | Horizontal and vertical<br>Flat on the back   |
| Upside connection                                   | Front   |
| Downside connection                                 | Front   |
| Connection pitch                                    | 35 mm   |
| Protection type                                     | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                    |
| Trip unit rating                                    | 30 A at 40 °C   |

|   |                    |
|---|--------------------|
| Long-time pick-up adjustment type I <sub>r</sub> (thermal protection) | Fixed              |
| [I <sub>r</sub> ] long-time protection pick-up adjustment range       | 1 x I <sub>n</sub> |
| Long-time protection delay adjustment type t <sub>r</sub>             | Fixed              |
| Instantaneous protection pick-up adjustment type I <sub>i</sub>       | Fixed              |
| [I <sub>i</sub> ] instantaneous protection pick-up adjustment range   | 300 A              |
| Earth-leakage protection  | Without            |
| Width (W)   | 35 mm              |
| Height (H)  | 161 mm             |
| Depth (D)   | 86 mm              |
| Net weight  | 0.7 kg             |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947   |
| Product certifications                | CCC[RETURN]EAC[RETURN]Marine                                 |
| Overvoltage category                  | Class II   |
| Electrical shock protection class     | Class II   |
| Pollution degree                      | 3 conforming to IEC 60664-1                                  |
| IP degree of protection               | IP40 conforming to IEC 60529                                 |
| IK degree of protection               | IK07 conforming to IEC 62262                                 |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -50...85 °C  |
| Relative humidity                     | 0...95 %   |
| Operating altitude                    | 0...2000 m without derating<br>2000 m...5000 m with derating |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.5 cm   |
| Package 1 Width              | 13.0 cm  |
| Package 1 Length             | 18.0 cm  |
| Package 1 Weight             | 746.0 g  |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 12       |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 9.302 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product                         |
| REACH Regulation           | <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant with Exemptions                     |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information | <a href="#">Yes</a>                           |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |
| PVC free                   | Yes   |