



## Main

|                                        |                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | Compact                                                                                                                                                                  |
| Product name                           | Compact NSX                                                                                                                                                              |
| Product or component type              | Circuit breaker                                                                                                                                                          |
| Device short name                      | Compact NSX100N                                                                                                                                                          |
| Device application                     | Distribution                                                                                                                                                             |
| Poles description                      | 1P                                                                                                                                                                       |
| Protected poles description            | 1t                                                                                                                                                                       |
| Network type                           | DC<br>AC                                                                                                                                                                 |
| Network frequency                      | 50/60 Hz                                                                                                                                                                 |
| [In] rated current                     | 25 A at 40 °C                                                                                                                                                            |
| [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                                                                                                                                           |
| [Ue] rated operational voltage         | 250 V DC conforming to IEC 60947-2<br>277 V AC 50/60 Hz conforming to IEC 60947-2                                                                                        |
| Breaking capacity code                 | N 25 kA 240 V AC                                                                                                                                                         |
| Breaking capacity                      | 50 kA Icu at 250 V DC 1P conforming to IEC 60947-2<br>50 kA Icu at 125 V DC 1P conforming to IEC 60947-2<br>25 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | 50 kA at 250 V DC conforming to IEC 60947-2<br>50 kA at 125 V DC conforming to IEC 60947-2<br>25 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2                   |
| Suitability for isolation              | Yes conforming to IEC 60947-2                                                                                                                                            |
| Utilisation category                   | Category A                                                                                                                                                               |
| Trip unit name                         | TM-D                                                                                                                                                                     |
| Trip unit technology                   | Thermal-magnetic                                                                                                                                                         |
| Trip unit protection functions         | LI                                                                                                                                                                       |
| Pollution degree                       | 3 conforming to IEC 60947                                                                                                                                                |

## Complementary

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Control type                             | Toggle                                                                                                                       |
| Mounting mode                            | Fixed                                                                                                                        |
| Mounting support                         | Backplate                                                                                                                    |
| Upside connection                        | Front                                                                                                                        |
| Downside connection                      | Front                                                                                                                        |
| Auxiliary contact composition            | Without                                                                                                                      |
| Mechanical durability                    | 20000 cycles                                                                                                                 |
| Electrical durability                    | 10000 cycles 277 V AC 50/60 Hz In conforming to IEC 60947-2<br>20000 cycles 277 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch                         | 35 mm                                                                                                                        |
| Local signalling                         | Positive contact indication                                                                                                  |
| Magnetic tripping current                | 300 A<br>640 A<br>1000 A<br>190 A<br>260 A<br>1250 A<br>500 A<br>800 A                                                       |
| Protection type                          | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                                         |
| Trip unit rating                         | 25 A at 40 °C                                                                                                                |
| Long time pick-up adjustment type Ir     | Fixed                                                                                                                        |
| Long time pick-up adjustment range       | 0.8...1 x In                                                                                                                 |
| Instantaneous pick-up adjustment type li | Fixed                                                                                                                        |
| Instantaneous pick-up adjustment range   | 300 A                                                                                                                        |
| Height                                   | 161 mm                                                                                                                       |
| Width                                    | 35 mm                                                                                                                        |
| Depth                                    | 86 mm                                                                                                                        |
| Compatibility code                       | NSX100                                                                                                                       |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | EN/IEC 60947<br>UL 508       |
| Product certifications                | CCC<br>EAC<br>Marine         |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to EN 50102  |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -50...85 °C                  |

## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                     |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                      |
| Mercury free               | Yes                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                               |

Contractual warranty

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