



## Main

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | ComPact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product name                   | ComPact NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Range of product               | ComPact NSX100...250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Device short name              | NSX100N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product or component type      | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Device application             | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Poles description              | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protected poles description    | 3t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [In] rated current             | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Network type                   | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Network frequency              | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Suitability for isolation      | Yes conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Utilisation category           | Category A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Breaking capacity              | 85 KA at 240 V AC 50/60 Hz conforming to UL 508<br>10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>20 KA at 600 V AC 50/60 Hz conforming to UL 508<br>50 KA at 480 V AC 50/60 Hz conforming to UL 508<br>36 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>90 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Breaking capacity code         | N 50 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Trip unit name                 | TM-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Trip unit technology           | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Trip unit protection functions | LI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Control type                   | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mounting mode                  | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Complementary

|                                           |                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage             | 800 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                        |
| [Uimp] rated impulse withstand voltage    | 8 KV                                                                                                                                                                                                                                                                                                                                                     |
| [Ics] rated service breaking capacity     | 10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>90 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                     | 50000 Cycles                                                                                                                                                                                                                                                                                                                                             |
| Electrical durability                     | 10000 Cycles at 690 V In<br>20000 Cycles at 690 V In/2<br>30000 Cycles at 440 V In<br>50000 Cycles at 440 V In/2                                                                                                                                                                                                                                         |
| Mounting support                          | Backplate                                                                                                                                                                                                                                                                                                                                                |
| 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                          | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                           |
| Long time pick-up adjustment type Ir      | Adjustable                                                                                                                                                                                                                                                                                                                                               |
| Long time pick-up adjustment range        | 0.7...1 x In                                                                                                                                                                                                                                                                                                                                             |
| Long time delay adjustment type           | Fixed                                                                                                                                                                                                                                                                                                                                                    |
| [tr] long-time delay adjustment range     | 120...400 S at 1.5 x In<br>15 S at 6 x Ir                                                                                                                                                                                                                                                                                                                |
| Short-time pick-up adjustment type Isd    | Fixed                                                                                                                                                                                                                                                                                                                                                    |
| [Isd] short-time pick-up adjustment range | 800 A                                                                                                                                                                                                                                                                                                                                                    |
| Short-time delay adjustment type          | Fixed                                                                                                                                                                                                                                                                                                                                                    |

|                          |           |
|--------------------------|-----------|
| Earth-leakage protection | Without   |
| Number of slots          | 5 slot(s) |
| Width                    | 105 Mm    |
| Height                   | 161 Mm    |
| Depth                    | 86 Mm     |
| Net weight               | 2.05 Kg   |

## Environment

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| Standards                             | EN/IEC 60947                                                 |
| Product certifications                | CCC<br>EAC<br>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 Weight             | 1.783 Kg  |
| Package 1 Height             | 11.6 Cm   |
| Package 1 width              | 14.7 Cm   |
| Package 1 Length             | 19.2 Cm   |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 12        |
| Package 2 Weight             | 22.162 Kg |
| Package 2 Height             | 30 Cm     |
| Package 2 width              | 40 Cm     |
| Package 2 Length             | 60 Cm     |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <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>        |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |

## Contractual warranty

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

Product Life Status : **Commercialised**