



### Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product name                                         | ComPact NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Range of product                                     | ComPact NSX100...250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Device short name                                    | NSX160F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product or component type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Number of poles                                      | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protected poles description                          | 4t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Neutral position                                     | Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [In] rated current                                   | 160 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Icu] rated ultimate short-circuit breaking capacity | 10 KA at 600 V AC 50/60 Hz conforming to UL 508<br>85 KA at 240 V AC 50/60 Hz conforming to UL 508<br>22 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>8 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA at 480 V AC 50/60 Hz conforming to UL 508<br>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | F 36 kA 415 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                             | 800 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage                    | 8 kV                                                                                                                                                                                                                                                                                                                                                    |
| [Ics] rated service short-circuit breaking capacity       | 35 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>22 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                                     | 40000 cycles                                                                                                                                                                                                                                                                                                                                            |
| Electrical durability                                     | 7500 Cycles at 690 V In<br>15000 Cycles at 690 V In/2<br>20000 Cycles at 440 V In<br>40000 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                                          | 160 A at 40 °C                                                                                                                                                                                                                                                                                                                                          |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable                                                                                                                                                                                                                                                                                                                                              |
| [Ir] long-time protection pick-up adjustment range        | 0.7...1 x In                                                                                                                                                                                                                                                                                                                                            |
| Long-time protection delay adjustment type tr             | Fixed                                                                                                                                                                                                                                                                                                                                                   |
| [tr] long-time protection delay adjustment range          | 120...400 S at 1.5 x In<br>15 s at 6 x Ir                                                                                                                                                                                                                                                                                                               |
| Short-time protection pick-up adjustment type Isd         | Fixed                                                                                                                                                                                                                                                                                                                                                   |
| [Isd] Short-time protection pick-up adjustment range      | 1250 A                                                                                                                                                                                                                                                                                                                                                  |
| Short-time protection delay adjustment type tsd           | Fixed                                                                                                                                                                                                                                                                                                                                                   |
| Earth-leakage protection                                  | Without                                                                                                                                                                                                                                                                                                                                                 |
| Neutral protection settings                               | 1 x Ir (4t)                                                                                                                                                                                                                                                                                                                                             |
| Number of slots for electrical auxiliaries                | 5 slot(s)                                                                                                                                                                                                                                                                                                                                               |
| Width (W)                                                 | 140 mm                                                                                                                                                                                                                                                                                                                                                  |
| Height (H)                                                | 161 mm                                                                                                                                                                                                                                                                                                                                                  |
| Depth (D)                                                 | 86 mm                                                                                                                                                                                                                                                                                                                                                   |
| Net weight                                                | 2.6 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             | 2.381 kg  |
| Package 1 Height             | 14 cm     |
| Package 1 width              | 14 cm     |
| Package 1 Length             | 19 cm     |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 9         |
| Package 2 Weight             | 22.497 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 |
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