



## Main

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|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product name                                         | ComPact NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Range of product                                     | ComPact NSX400...630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Device short name                                    | NSX400F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product or component type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of poles                                      | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protected poles description                          | 3t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [In] rated current                                   | 400 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 | 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>25 kA Icu at 500 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>10 kA Icu at 660/690 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>20 kA at 600 V AC 50/60 Hz conforming to UL 508<br>20 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | F 36 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Trip unit name                                       | Micrologic 2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Trip unit protection functions                       | LSol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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       | 40 kA at 220/240 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>10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                                     | 15000 cycles                                                                                                                                                                                                                                                                                                                                             |
| Electrical durability                                     | 3000 cycles at 690 V In<br>6000 cycles at 690 V In/2<br>6000 cycles at 440 V In<br>12000 cycles at 440 V In/2                                                                                                                                                                                                                                            |
| Mounting support                                          | Backplate                                                                                                                                                                                                                                                                                                                                                |
| Upside connection                                         | Front                                                                                                                                                                                                                                                                                                                                                    |
| Downside connection                                       | Front                                                                                                                                                                                                                                                                                                                                                    |
| Connection pitch                                          | 45 mm                                                                                                                                                                                                                                                                                                                                                    |
| Protection type                                           | L : for overload protection (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection                                                                                                                                                                                               |
| Trip unit rating                                          | 400 A at 40 °C                                                                                                                                                                                                                                                                                                                                           |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings                                                                                                                                                                                                                                                                                                                                    |
| [Ir] long-time protection pick-up adjustment range        | 160...400 A                                                                                                                                                                                                                                                                                                                                              |
| Long-time protection delay adjustment type tr             | Fixed                                                                                                                                                                                                                                                                                                                                                    |
| [Tr] long-time protection delay adjustment range          | 16 s at 6 x Ir                                                                                                                                                                                                                                                                                                                                           |
| Thermal memory                                            | 20 minutes before and after tripping                                                                                                                                                                                                                                                                                                                     |
| Short-time protection pick-up adjustment type Isd         | Adjustable 9 settings                                                                                                                                                                                                                                                                                                                                    |
| [Isd] Short-time protection pick-up adjustment range      | 1.5...10 x Ir                                                                                                                                                                                                                                                                                                                                            |
| Short-time protection delay adjustment type tsd           | Fixed                                                                                                                                                                                                                                                                                                                                                    |
| Instantaneous protection pick-up adjustment type Ii       | Fixed                                                                                                                                                                                                                                                                                                                                                    |
| [Ii] instantaneous protection pick-up adjustment range    | 4800 A                                                                                                                                                                                                                                                                                                                                                   |
| Earth-leakage protection                                  | Without                                                                                                                                                                                                                                                                                                                                                  |
| Number of slots for electrical auxiliaries                | 6 slot(s)                                                                                                                                                                                                                                                                                                                                                |
| Local signalling                                          | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload                                                                                                                                                                                                                                        |
| Width (W)                                                 | 140 mm                                                                                                                                                                                                                                                                                                                                                   |
| Height (H)                                                | 255 mm                                                                                                                                                                                                                                                                                                                                                   |
| Depth (D)                                                 | 110 mm                                                                                                                                                                                                                                                                                                                                                   |
| Net weight                                                | 6.05 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             | 5.589 kg  |
| Package 1 Height             | 15 cm     |
| Package 1 width              | 16 cm     |
| Package 1 Length             | 29 cm     |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 3         |
| Package 2 Weight             | 17.511 kg |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 40 cm     |
| Package 2 Length             | 60 cm     |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 12        |
| Package 3 Weight             | 80 kg     |
| Package 3 Height             | 80 cm     |
| Package 3 width              | 80 cm     |
| Package 3 Length             | 120 cm    |

## 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>                                                                                     |
| 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 |
|----------|-----------|