



## Main

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|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | Compact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product name                           | Compact NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product or component type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Device short name                      | Compact NSX100H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Device application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Poles description                      | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protected poles description            | 3t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Network type                           | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [In] rated current                     | 50 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ui] rated insulation voltage          | 800 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Uimp] rated impulse withstand voltage | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Breaking capacity code                 | H 70 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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>65 kA at 480 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>100 kA Icu at 220/240 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>50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 220/240 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>50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                  |
| Suitability for isolation              | Yes conforming to EN 60947-2<br>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 60664-1 |

## Complementary

|                                                        |                                                                                                                                                                                                              |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                                           | Toggle                                                                                                                                                                                                       |
| Mounting mode                                          | Fixed                                                                                                                                                                                                        |
| Mounting support                                       | Backplate                                                                                                                                                                                                    |
| Upside connection                                      | Front                                                                                                                                                                                                        |
| Downside connection                                    | Front                                                                                                                                                                                                        |
| Auxiliary contact composition                          | Without                                                                                                                                                                                                      |
| Mechanical durability                                  | 50000 cycles                                                                                                                                                                                                 |
| Electrical durability                                  | 10000 cycles 690 V In conforming to IEC 60947-2<br>20000 cycles 690 V In/2 conforming to IEC 60947-2<br>30000 cycles 440 V In conforming to IEC 60947-2<br>50000 cycles 440 V In/2 conforming to IEC 60947-2 |
| Connection pitch                                       | 35 mm                                                                                                                                                                                                        |
| Local signalling                                       | Positive contact indication                                                                                                                                                                                  |
| Protection type                                        | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                                                                                                                         |
| Trip unit rating                                       | 50 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 I <sub>sd</sub>     | Fixed                                                                                                                                                                                                        |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 500 A                                                                                                                                                                                                        |
| Short-time delay adjustment type                       | Fixed                                                                                                                                                                                                        |
| Height                                                 | 161 mm                                                                                                                                                                                                       |
| Width                                                  | 105 mm                                                                                                                                                                                                       |
| Depth                                                  | 86 mm                                                                                                                                                                                                        |
| Product weight                                         | 2.05 kg                                                                                                                                                                                                      |
| Compatibility code                                     | NSX100                                                                                                                                                                                                       |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Overvoltage category                  | Class II                     |
| Electrical shock protection class     | Class II                     |
| Standards                             | EN/IEC 60947<br>UL 508       |
| Product certifications                | EAC<br>Marine<br>CCC         |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to IEC 62262 |
| Ambient air temperature for operation | -35...70 °C                  |
| Ambient air temperature for storage   | -55...85 °C                  |

## Offer Sustainability

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| Sustainable offer status | Green Premium product                            |
| RECh Regulation          | <a href="#">RECh 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 |
|----------|-----------|