



## Main

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|--|--|
| Range                                  | Compact  |
| Product name                           | Compact NSX  |
| Product or component type              | Circuit breaker  |
| Device short name                      | Compact NSX100F  |
| Device application                     | Distribution   |
| Poles description                      | 4P   |
| Protected poles description            | 4t   |
| Neutral position                       | Left   |
| Network type                           | AC   |
| Network frequency                      | 50/60 Hz   |
| [In] rated current                     | 100 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                 | F 36 kA 415 V AC   |
| Breaking capacity                      | 10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>25 kA at 480 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>25 kA Icu at 500 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 |
| [Ics] rated service breaking capacity  | 11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>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>4 kA at 660/690 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>12.5 kA at 500 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  |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                |                             |
|--------------------------------|-----------------------------|
| 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  |
| Neutral protection setting                | 1 x Ir (4t)  |
| Protection type                           | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)   |
| Trip unit rating                          | 25 A at 40 °C  |
| Long time pick-up adjustment type Ir      | 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 | 300 A  |
| Short-time delay adjustment type          | Fixed  |
| Height                                    | 161 mm   |
| Width                                     | 140 mm   |
| Depth                                     | 86 mm  |
| Net weight                                | 2.4 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 |
|--------------------------|-----------------------|

|                            |   |
|----------------------------|---|
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Not applicable, out of EU RoHS legal scope  |
| 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 |
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