

# Product datasheet

Specifications



## circuit breaker Compact NSX100H - TMD - 25 A - 4 poles 3d

LV429686

Discontinued on: 15 June 2023

Discontinued

### Main

|  |  |
|--|--|
| Range  | ComPact  |
| Product name   | ComPact NSX  |
| Range of product                                     | ComPact NSX100...250   |
| Device short name                                    | NSX100H  |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Distribution   |
| Number of poles                                      | 4P   |
| Protected poles description                          | 3t   |
| Neutral position                                     | Left   |
| [In] rated current                                   | 25 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>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 |
| Performance level                                    | H 70 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       | 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 |
| 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  | 25 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      | 300 A   |
| Short-time protection delay adjustment type tsd           | Fixed   |
| Earth-leakage protection                                  | Without   |
| Neutral protection settings                               | No protection (3t)  |
| Number of slots for electrical auxiliaries                | 5 slot(s)   |
| Width (W)   | 140 mm  |
| Height (H)  | 161 mm  |
| Depth (D)   | 86 mm   |
| Net weight  | 2.4 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 Height             | 14.5 cm  |
| Package 1 Width              | 16.86 cm |
| Package 1 Length             | 19.0 cm  |
| Package 1 Weight             | 2.435 kg |

### 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   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| RoHS exemption information | <a href="#">Yes</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 | 12 months |
|----------|-----------|

### Recommended replacement(s)

LV429686 is replaced by:

1x



Circuit breaker ComPacT NSX100H, 70kA at 415VAC, TMD trip unit 25A, 4 poles 3d C10H6TM025