

# Product datasheet

Specifications



circuit breaker ComPact NSX100S  
AC/DC. 70 kA at 415 VAC. TMD  
trip unit 40 A. 2 poles 2d

LV438616

⚠ Discontinued on: 30 Jun 2023

⚠ Discontinued

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product Name                                         | ComPact NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Range Of Product                                     | ComPact NSX100...250 DC<br>ComPact NSX100...250                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Device Short Name                                    | NSX100S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product Or Component Type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Device Application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Number Of Poles                                      | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protected Poles Description                          | 2t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [In] Rated Current                                   | 40 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Ue] Rated Operational Voltage                       | 690 V AC 50/60 Hz<br>500 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Network Type                                         | DC<br>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 Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 500/525 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>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<br>100 kA Icu at 250 V DC 1P conforming to IEC 60947-2<br>100 kA Icu at 125 V DC 1P conforming to IEC 60947-2<br>100 kA Icu at 500 V DC 2P conforming to IEC 60947-2 |
| Performance Level                                    | S 70 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Trip Unit Name                                       | TM-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Trip Unit Technology                                 | Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Control Type                                         | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Circuit Breaker Mounting Mode                        | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Complementary

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| [Ui] Rated Insulation Voltage          | 750 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947-2              |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ics] Rated Service Short-Circuit Breaking Capacity       | 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 500/525 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>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<br>100 kA at 250 V DC conforming to IEC 60947-2<br>100 kA at 125 V DC conforming to IEC 60947-2<br>100 kA at 500 V DC conforming to IEC 60947-2 |
| Mechanical Durability                                     | 20000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Electrical Durability                                     | 10000 cycles at 277 V In<br>20000 cycles at 277 V In/2                                                                                                                                                                                                                                                                                                                                                                                                |
| Mounting Support                                          | Backplate                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Upside Connection                                         | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Downside Connection                                       | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Connection Pitch                                          | 35 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protection Type                                           | for overload protection (thermal)<br>for short-circuit protection (magnetic)                                                                                                                                                                                                                                                                                                                                                                          |
| Trip Unit Rating                                          | 40 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ir] Long-Time Protection Pick-Up Adjustment Range        | 1 In                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Im] Magnetic Protection Pick-Up Range                    | 500 A                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Earth-Leakage Protection                                  | Without                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Width (W)                                                 | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Height (H)                                                | 161 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth (D)                                                 | 86 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 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             | 8.0 cm |

|                              |           |
|------------------------------|-----------|
| Package 1 Width              | 13.5 cm   |
| Package 1 Length             | 17.5 cm   |
| Package 1 Weight             | 1.286 kg  |
| Unit Type Of Package 2       | S03       |
| Number Of Units In Package 2 | 12        |
| Package 2 Height             | 30.0 cm   |
| Package 2 Width              | 30.0 cm   |
| Package 2 Length             | 40.0 cm   |
| Package 2 Weight             | 15.919 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

- [Learn more about Green Premium >](#)
- [Guide to assess a product’s sustainability >](#)



RoHS/REACH

Well-being performance

- ✓

Mercury Free
- ✓

Rohs Exemption Information

Yes

Certifications & Standards

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| Eu Rohs Directive     | Compliant                                                                   |
|                       | <a href="#">EU RoHS Declaration</a>                                         |
| China Rohs Regulation | <a href="#">China RoHS declaration</a>                                      |
|                       | Product out of China RoHS scope. Substance declaration for your information |