

# Product data sheet

Specifications



! Discontinued

## Circuit breaker, ComPact NSX100HB2, 100kA/690VAC, MicroLogic 2.2 trip unit 40A, 4 poles 4d

LV433331

! Discontinued on: Feb 10, 2023

**Product availability:** Non-Stock - Not normally stocked in distribution facility  
**Important message:** This product has been switched to new ComPacT range and is no longer commercialized.

### Main

|                                                      |                                                                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                              |
| Product name                                         | ComPact NSX                                                                                                                          |
| Range of Product                                     | ComPact NSX100...250                                                                                                                 |
| Device short name                                    | NSX100HB2                                                                                                                            |
| Product or Component Type                            | Circuit breaker                                                                                                                      |
| Device Application                                   | Distribution                                                                                                                         |
| Number of poles                                      | 4P                                                                                                                                   |
| Protected poles description                          | 3t<br>3t + N/2<br>4t                                                                                                                 |
| Neutral position                                     | Left                                                                                                                                 |
| Line Rated Current                                   | 40 A 104 °F (40 °C)                                                                                                                  |
| [Ue] rated operational voltage                       | 690 V AC 50/60 Hz                                                                                                                    |
| Network type                                         | AC                                                                                                                                   |
| Network Frequency                                    | 50/60 Hz                                                                                                                             |
| Suitability for isolation                            | Yes EN/IEC 60947-2                                                                                                                   |
| Utilisation category                                 | Category A                                                                                                                           |
| [Icu] rated ultimate short-circuit breaking capacity | 100 kA Icu 500 V AC 50/60 Hz IEC 60947-2<br>100 kA Icu 525 V AC 50/60 Hz IEC 60947-2<br>100 kA Icu 660/690 V AC 50/60 Hz IEC 60947-2 |
| Performance level                                    | HB2 100 kA 690 V AC                                                                                                                  |
| Trip unit name                                       | MicroLogic 2.2                                                                                                                       |
| 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 |
|-------------------------------|-------------------|

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                                                           |                                                                                                                                                            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage                    | 8 kV                                                                                                                                                       |
| [Ics] rated service short-circuit breaking capacity       | 100 kA 500 V AC 50/60 Hz IEC 60947-2<br>100 kA 525 V AC 50/60 Hz IEC 60947-2<br>100 kA 660/690 V AC 50/60 Hz IEC 60947-2                                   |
| Mechanical durability                                     | 50000 cycles                                                                                                                                               |
| Electrical durability                                     | 10000 cycles 690 V In<br>20000 cycles 690 V In/2<br>30000 cycles 440 V In<br>50000 cycles 440 V In/2                                                       |
| Mounting Support                                          | Backplate                                                                                                                                                  |
| Upside connection                                         | Front                                                                                                                                                      |
| Downside connection                                       | Front                                                                                                                                                      |
| Connection pitch                                          | 1.4 in (35 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                                          | 40 A 104 °F (40 °C)                                                                                                                                        |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings                                                                                                                                      |
| [Ir] long-time protection pick-up adjustment range        | 18...40 A                                                                                                                                                  |
| Long-time protection delay adjustment type tr             | Fixed                                                                                                                                                      |
| [tr] long-time protection delay adjustment range          | 11 s 7.2 x Ir<br>16 s 6 x Ir<br>400 s 1.5 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    | 600 A                                                                                                                                                      |
| Earth-leakage protection                                  | Without                                                                                                                                                    |
| Neutral protection settings                               | 0.5 x Ir 3t + N/2)<br>1 x Ir 4t)<br>No protection 3t)                                                                                                      |
| Zone selective interlocking ZSI                           | Without                                                                                                                                                    |
| Number of slots for electrical auxiliaries                | 5                                                                                                                                                          |
| 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)                                                 | 4.1 in (105 mm)                                                                                                                                            |
| Height (H)                                                | 6.3 in (161 mm)                                                                                                                                            |
| Depth (D)                                                 | 3.4 in (86 mm)                                                                                                                                             |
| Net Weight                                                | 5.3 lb(US) (2.4 kg)                                                                                                                                        |

## Environment

|           |              |
|-----------|--------------|
| Standards | EN/IEC 60947 |
|-----------|--------------|

|                                       |                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------|
| Product Certifications                | Marine<br>CCC<br>EAC                                                          |
| Overvoltage category                  | Class II                                                                      |
| Electrical shock protection class     | Class II                                                                      |
| Pollution degree                      | 3 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 | -13...158 °F (-25...70 °C)                                                    |
| Ambient Air Temperature for Storage   | -58...185 °F (-50...85 °C)                                                    |
| Relative humidity                     | 0...95 %                                                                      |
| Operating altitude                    | 0...6561.68 ft (0...2000 m) without derating<br>2000 m...5000 m with derating |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10DE201101  |
| Discount Schedule | 0DE2          |
| GTIN              | 3606480479649 |
| Returnability     | No            |

## Packing Units

|                        |                         |
|------------------------|-------------------------|
| Unit Type of Package 1 | PCE                     |
| Nbr. of units in pkg.  | 1                       |
| Package 1 Height       | 5.3 in (13.5 cm)        |
| Package 1 Width        | 5.6 in (14.1 cm)        |
| Package 1 Length       | 7.6 in (19.2 cm)        |
| Package weight(Lbs)    | 5.564 lb(US) (2.524 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained](#) >

[How we assess product sustainability](#) >

### Use Better

| Materials and Substances          |                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">EU RoHS Directive</a> | Compliant                                                                                                                                                                                                                                                                                                                                 |
| California proposition 65         | <b>WARNING:</b> This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEEE Label               |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |