

# Product datasheet

Specifications



## Circuit breaker basic frame, ComPact NSX100S DC, 100kA at 750VDC, 100A, without trip unit, 3 poles

LV438018

! Discontinued

! Discontinued on: 13 Nov 2022

! End-of-service on: 31 Dec 2023

## Main

|  |   |
|--|---|
| Range  | ComPact   |
| Range of product                                     | ComPact NSX100...250 DC   |
| Device short name                                    | Compact NSX100S DC  |
| Product or component type                            | Basic frame   |
| Device application                                   | Distribution  |
| Circuit breaker name                                 | Compact NSX100S DC  |
| Number of poles                                      | 3P  |
| [In] rated current                                   | 100 A at 40 °C  |
| [Ue] rated operational voltage                       | 750 V DC  |
| Network type   | DC  |
| Suitability for isolation                            | Yes conforming to EN/IEC 60947-2  |
| Utilisation category                                 | Category A  |
| [Icu] rated ultimate short-circuit breaking capacity | 100 kA Icu at 250 V DC 1P conforming to IEC 60947-2<br>100 kA Icu at 24...125 V DC 1P conforming to IEC 60947-2<br>100 kA Icu at 500 V DC 2P conforming to IEC 60947-2<br>100 kA Icu at 750 V DC 3P conforming to IEC 60947-2 |
| Performance level                                    | S 100 kA 750 V DC   |
| Control type   | Toggle  |
| Mounting mode  | Fixed   |

## Complementary

|   |   |
|---|---|
| [Ui] rated insulation voltage                       | 750 V DC conforming to IEC 60947-2  |
| [Uimp] rated impulse withstand voltage              | 8 kV conforming to IEC 60947-2  |
| [Ics] rated service short-circuit breaking capacity | 100 kA at 250 V DC conforming to IEC 60947-2 (1P)<br>100 kA at 48/125 V DC conforming to IEC 60947-2 (1P)<br>100 kA at 500 V DC conforming to IEC 60947-2 (2P)<br>100 kA at 750 V DC conforming to IEC 60947-2 (3P) |
| Maximum breaking time                               | 10 ms   |
| Mechanical durability                               | 10000 cycles conforming to IEC 60947-2  |

|                              |   |
|------------------------------|---|
| <b>Electrical durability</b> | 10000 cycles 250 V DC In/2 conforming to IEC 60947-2<br>10000 cycles 500 V DC In/2 conforming to IEC 60947-2<br>10000 cycles 750 V DC In/2 conforming to IEC 60947-2<br>5000 cycles 250 V DC In conforming to IEC 60947-2<br>5000 cycles 500 V DC In conforming to IEC 60947-2<br>5000 cycles 750 V DC In conforming to IEC 60947-2 |
| <b>Mounting support</b>      | Backplate   |
| <b>Upside connection</b>     | Front   |
| <b>Downside connection</b>   | Front   |
| <b>Connection pitch</b>      | 35 mm   |
| <b>Protection type</b>       | Without protection  |
| <b>Width (W)</b>             | 105 mm  |
| <b>Height (H)</b>            | 161 mm  |
| <b>Depth (D)</b>             | 86 mm   |

## Environment

|  |                               |
|--|-------------------------------|
| <b>Standards</b>                             | IEC 60947-2                   |
| <b>Product certifications</b>                | ASTA<br>ASEFA<br>KEMA<br>LCIE |
| <b>Pollution degree</b>                      | 3 conforming to IEC 60664-1   |
| <b>IP degree of protection</b>               | IP40 conforming to IEC 60529  |
| <b>IK degree of protection</b>               | IK07 conforming to EN 50102   |
| <b>Ambient air temperature for operation</b> | -25...70 °C                   |
| <b>Ambient air temperature for storage</b>   | -50...85 °C                   |

## Packing Units

|                                     |          |
|-------------------------------------|----------|
| <b>Unit Type of Package 1</b>       | PCE      |
| <b>Number of Units in Package 1</b> | 1        |
| <b>Package 1 Height</b>             | 13.7 cm  |
| <b>Package 1 Width</b>              | 11.2 cm  |
| <b>Package 1 Length</b>             | 19.2 cm  |
| <b>Package 1 Weight</b>             | 1.499 kg |
| <b>Unit Type of Package 2</b>       | S04      |
| <b>Number of Units in Package 2</b> | 12       |
| <b>Package 2 Height</b>             | 30.0 cm  |
| <b>Package 2 Width</b>              | 40.0 cm  |
| <b>Package 2 Length</b>             | 60.0 cm  |
| <b>Package 2 Weight</b>             | 18.73 kg |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 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 >](#)



### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

SCIP Number

206b752d-15ab-4228-8cd8-4e338f718b28

EU RoHS Directive

[Compliant By Exemption](#)

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins