



## Commercial status

End of Commercialisation : JAN 08, 2021

 End of Commercialisation

## Main

|                                |  |
|--------------------------------|--|
| Range                          | ComPact  |
| Product name                   | ComPact NSX  |
| Range of product               | ComPact NSX100...250   |
| Device short name              | NSX100F  |
| Product or component type      | Circuit breaker  |
| Device application             | Distribution   |
| Poles description              | 3P   |
| Protected poles description    | 2t   |
| [In] rated current             | 80 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   |
| 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 |
| Breaking capacity code         | F 36 kA 415 V AC   |
| Trip unit name                 | TM-D   |
| Trip unit technology           | Thermal-magnetic   |
| Trip unit protection functions | LI   |
| Control type                   | Toggle   |
| Mounting mode                  | Fixed  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

|  |   |
|--|---|
| [Ui] rated insulation voltage                          | 800 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage                 | 8 KV  |
| [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 |
| 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                                       | 80 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 I <sub>sd</sub>     | Fixed   |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 640 A   |
| Short-time delay adjustment type                       | Fixed   |
| Earth-leakage protection                               | Without   |
| Number of slots  | 5 slot(s)   |
| Width  | 105 Mm  |
| Height   | 161 Mm  |
| Depth  | 86 Mm   |
| Net weight   | 2.05 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

|                  |           |
|------------------|-----------|
| Package 1 Weight | 1.718 Kg  |
| Package 1 Height | 14.400 Cm |
| Package 1 width  | 11.600 Cm |
| Package 1 Length | 19.700 Cm |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product                         |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>                           |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |

### Contractual warranty

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

|                       |                                |
|-----------------------|--------------------------------|
| Product Life Status : | <b>End of commerc. - Block</b> |
|-----------------------|--------------------------------|