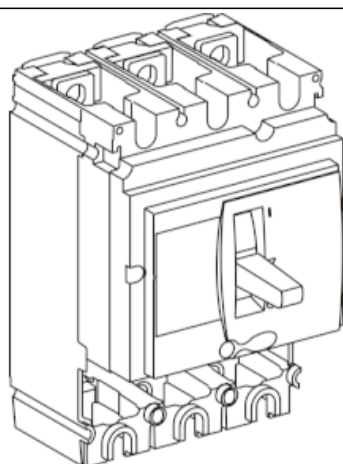




## Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | Compact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Range of product                       | NSX100...250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product or component type              | Basic frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Device short name                      | Compact NSX100F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Device application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Circuit breaker name                   | Compact NSX100F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poles description                      | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Network type                           | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [In] rated current                     | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ui] rated insulation voltage          | 800 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Breaking capacity code                 | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 |
| [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                                                                                                                                                                                |
| Suitability for isolation              | Yes conforming to EN 60947-2<br>Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Utilisation category                   | Category A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                  |                             |
|------------------|-----------------------------|
| Pollution degree | 3 conforming to IEC 60947-1 |
|------------------|-----------------------------|

## Complementary

|                               |                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                  | Toggle                                                                                                                                                                                                                                                       |
| Mounting mode                 | Fixed                                                                                                                                                                                                                                                        |
| Mounting support              | Backplate                                                                                                                                                                                                                                                    |
| Upside connection             | Front                                                                                                                                                                                                                                                        |
| Downside connection           | Front                                                                                                                                                                                                                                                        |
| Protection type               | Without protection                                                                                                                                                                                                                                           |
| Auxiliary contact composition | Without                                                                                                                                                                                                                                                      |
| Mechanical durability         | 50000 cycles conforming to IEC 60947-2                                                                                                                                                                                                                       |
| Electrical durability         | 10000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2<br>20000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>50000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch              | 35 mm                                                                                                                                                                                                                                                        |
| Height                        | 161 mm                                                                                                                                                                                                                                                       |
| Width                         | 105 mm                                                                                                                                                                                                                                                       |
| Depth                         | 86 mm                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Standards                             | IEC 60947-2<br>UL 508<br>EN 60947-2 |
| Product certifications                | CSA<br>UL                           |
| IP degree of protection               | IP40 conforming to IEC 60529        |
| IK degree of protection               | IK07 conforming to IEC 62262        |
| Ambient air temperature for operation | -35...70 °C                         |
| Ambient air temperature for storage   | -55...85 °C                         |

## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| EU RoHS Directive          | Compliant<br><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><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                               |

## Contractual warranty

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