



Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX new generation  |
| Device short name                                    | NSX100HB2   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Motor protection  |
| Poles description                                    | 3P  |
| Protected poles description                          | 3D  |
| [In] rated current                                   | 100 A at 65 °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  |
| [Icu] rated ultimate short-circuit breaking capacity | 100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | HB2 100 kA 690 V AC   |
| Trip unit name                                       | MA  |
| Trip unit technology                                 | Magnetic  |
| Trip unit protection functions                       | I   |
| Control type   | Toggle  |
| Circuit breaker mounting mode                        | Fixed   |

Complementary

|   |   |
|---|---|
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage              | 8 kV  |
| [Ics] rated service short-circuit breaking capacity | 100 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 20000 cycles  |
| Electrical durability                               | 20000 Cycles at 440 V In/2<br>10000 Cycles at 440 V In<br>10000 Cycles at 690 V In/2<br>5000 cycles at 690 V In   |
| Power dissipation per pole                          | 5.2 W   |
| Mounting support                                    | Backplate   |
| Mounting position                                   | Horizontal and vertical<br>Flat on the back   |
| Upside connection                                   | Front   |
| Downside connection                                 | Front   |
| Connection pitch                                    | 35 mm   |
| Protection type                                     | I : for short-circuit protection (magnetic)   |

|   |                       |
|---|-----------------------|
| Trip unit rating  | 100 A at 65 °C        |
| Short-time protection pick-up adjustment type I <sub>sd</sub>       | Adjustable 9 settings |
| [I <sub>sd</sub> ] Short-time protection pick-up adjustment range   | 6...14 x In           |
| Instantaneous protection pick-up adjustment type I <sub>i</sub>     | Adjustable 9 settings |
| [I <sub>i</sub> ] instantaneous protection pick-up adjustment range | 6...14 x In           |
| Earth-leakage protection  | Without               |
| Number of slots for electrical auxiliaries                          | 5 slot(s)             |
| Width (W)   | 105 mm                |
| Height (H)  | 161 mm                |
| Depth (D)   | 86 mm                 |
| Net weight  | 2.05 kg               |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947   |
| Product certifications                | EAC[RETURN]Marine[RETURN]CCC                                 |
| 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             | 14.0 cm |
| Package 1 Width              | 11.0 cm |
| Package 1 Length             | 20.0 cm |
| Package 1 Weight             | 1.81 kg |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 4       |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 7.24 kg |

## Offer Sustainability

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