

# Product data sheet

Specifications



## Circuit breaker basic frame, ComPacT NSX250F, 36kA/415VAC, 4 poles, 250A frame rating, without trip unit

C25F4

### Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product name                                         | ComPacT NSX new generation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Device short name                                    | NSX250F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product or component type                            | Basic frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Poles description                                    | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Neutral position                                     | Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [In] rated current                                   | 250 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ue] rated operational voltage                       | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 | 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>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<br>35 kA at 480 V AC 50/60 Hz conforming to UL 508<br>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| Performance level                                    | F 36 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Control type                                         | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting mode                                        | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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                                                                                                                                                                                                                                                                                                                          |
| [Ics] rated service short-circuit breaking capacity | 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>85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 20000 cycles conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                  |

|                              |                                                                                                                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical durability</b> | 10000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>10000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>20000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>5000 cycles 690 V AC 50/60 Hz 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>             | 140 mm                                                                                                                                                                                                                                                      |
| <b>Height (H)</b>            | 161 mm                                                                                                                                                                                                                                                      |
| <b>Depth (D)</b>             | 86 mm                                                                                                                                                                                                                                                       |

## Environment

|                                              |                              |
|----------------------------------------------|------------------------------|
| <b>Standards</b>                             | EN/IEC 60947-2<br>UL 508     |
| <b>Product certifications</b>                | UL<br>CSA                    |
| <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 IEC 62262 |
| <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 Weight</b>             | 2.136 kg  |
| <b>Package 1 Height</b>             | 13.5 cm   |
| <b>Package 1 width</b>              | 14.5 cm   |
| <b>Package 1 Length</b>             | 19.0 cm   |
| <b>Unit Type of Package 2</b>       | P12       |
| <b>Number of Units in Package 2</b> | 48        |
| <b>Package 2 Weight</b>             | 120.5 kg  |
| <b>Package 2 Height</b>             | 43.0 cm   |
| <b>Package 2 width</b>              | 80.0 cm   |
| <b>Package 2 Length</b>             | 120.0 cm  |
| <b>Unit Type of Package 3</b>       | S03       |
| <b>Number of Units in Package 3</b> | 6         |
| <b>Package 3 Weight</b>             | 13.207 kg |
| <b>Package 3 Height</b>             | 30.0 cm   |
| <b>Package 3 width</b>              | 30.0 cm   |
| <b>Package 3 Length</b>             | 40.0 cm   |

# Offer Sustainability

|                                   |                                                                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REACH Regulation</b>           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| <b>EU RoHS Directive</b>          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                            |
| <b>Mercury free</b>               | Yes                                                                                                                                                                                                                                                                                         |
| <b>RoHS exemption information</b> | Yes                                                                                                                                                                                                                                                                                         |
| <b>China RoHS Regulation</b>      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information                                                                                                                                                                       |
| <b>California proposition 65</b>  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |