

# Product datasheet

Specifications



## Circuit breaker ComPacT NSX160B, 25kA at 415VAC, TMD trip unit 125A, 3 poles 3d

C16B3TM125

### Main

|  |  |
|--|--|
| Range  | ComPacT new generation   |
| Product Name   | ComPacT NSX new generation   |
| Device Short Name                                    | NSX160B  |
| Product Or Component Type                            | Circuit breaker  |
| Device Application                                   | Distribution   |
| Poles Description                                    | 3P   |
| Protected Poles Description                          | 3D   |
| [In] Rated Current                                   | 125 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   |
| [Icu] Rated Ultimate Short-Circuit Breaking Capacity | 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level                                    | B 25 kA 415 V AC   |
| Trip Unit Name                                       | TM-D   |
| Trip Unit Technology                                 | Thermal-magnetic   |
| Trip Unit Protection Functions                       | LI   |
| 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 | 40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical Durability                               | 40000 cycles   |

|  |   |
|--|---|
| <b>Electrical Durability</b>                                     | 40000 cycles at 440 V In/2<br>20000 cycles at 440 V In<br>15000 cycles at 690 V In/2<br>7500 cycles at 690 V In |
| <b>Power Dissipation Per Pole</b>                                | 10.78 W   |
| <b>Mounting Support</b>  | Backplate   |
| <b>Mounting Position</b>   | Horizontal and vertical<br>Flat on the back   |
| <b>Upside Connection</b>   | Front   |
| <b>Downside Connection</b>                                       | Front   |
| <b>Connection Pitch</b>  | 35 mm   |
| <b>Protection Type</b>   | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                            |
| <b>Trip Unit Rating</b>  | 125 A at 40 °C  |
| <b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b> | Adjustable  |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>        | 0.7...1 x In  |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>             | Fixed   |
| <b>[Tr] Long-Time Protection Delay Adjustment Range</b>          | 120...400 s at 1.5 x In<br>15 s at 6 x Ir   |
| <b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>       | Fixed   |
| <b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>    | 1250 A  |
| <b>Earth-Leakage Protection</b>                                  | Without   |
| <b>Number Of Slots For Electrical Auxiliaries</b>                | 5 slot(s)   |
| <b>Width (W)</b>   | 105 mm  |
| <b>Height (H)</b>  | 161 mm  |
| <b>Depth (D)</b>   | 86 mm   |
| <b>Net Weight</b>  | 2.2 kg  |

## Environment

|  |  |
|--|--|
| <b>Standards</b>                             | EN/IEC 60947   |
| <b>Product Certifications</b>                | CCC<br>EAC<br>Marine   |
| <b>Overvoltage Category</b>                  | Class II   |
| <b>Electrical Shock Protection Class</b>     | Class II   |
| <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  |
| <b>Relative Humidity</b>                     | 0...95 %   |
| <b>Operating Altitude</b>                    | 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             | 14.000 cm |
| Package 1 Width              | 11.000 cm |
| Package 1 Length             | 19.500 cm |
| Package 1 Weight             | 1.838 kg  |
| Unit Type Of Package 2       | S03       |
| Number Of Units In Package 2 | 7         |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 13.248 kg |

## Sustainability

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Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

Pvc Free

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)