# Product datasheet

Specifications

## Circuit breaker, ComPacT NSX100B, 25kA/415VAC, 3 poles, TMD trip unit 25A

C10B3TM025

## Main

| | |
|---|---|
| **Range** | ComPacT new generation |
| **Product Name** | ComPacT NSX new generation |
| **Device Short Name** | NSX100B |
| **Product Or Component Type** | Circuit breaker |
| **Device Application** | Distribution |
| **Poles Description** | 3P |
| **Protected Poles Description** | 3D |
| **[In] Rated Current** | 25 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>7 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Mechanical Durability** | 50000 cycles |

Disclaimer: 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

| | |
|---|---|
| **Electrical Durability** | 50000 cycles at 440 V In/2<br>30000 cycles at 440 V In<br>20000 cycles at 690 V In/2<br>10000 cycles at 690 V In |
| **Power Dissipation Per Pole** | 4.01 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** | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic) |
| **Trip Unit Rating** | 25 A at 40 °C |
| **Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)** | Adjustable |
| **[Ir] Long-Time Protection Pick-Up Adjustment Range** | 0.7...1 x In |
| **Long-Time Protection Delay Adjustment Type Tr** | Fixed |
| **[Tr] Long-Time Protection Delay Adjustment Range** | 120…400 s at 1.5 x In<br>15 s at 6 x Ir |
| **Instantaneous Protection Pick-Up Adjustment Type Ii** | Fixed |
| **[Ii] Instantaneous Protection Pick-Up Adjustment Range** | 300 A |
| **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** | 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

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|---|---|
| **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** | 19.000 cm |
| **Package 1 Weight** | 1.831 kg |
| **Unit Type Of Package 2** | S03 |
| **Number Of Units In Package 2** | 4 |
| **Package 2 Height** | 30.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 7.718 kg |

## Sustainability

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

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<br>Product out of China RoHS scope. Substance declaration for your information |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |