

Product datasheet

Specifications



Circuit breaker ComPacT NSX100B, 25kA at 415VAC, TMD trip unit 100A, 3 poles 3d

C10B3TM100

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 | 100 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 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 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 25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 7 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 50000 cycles |

| | |
|--|--|
| Electrical durability | 50000 cycles at 440 V In/2 30000 cycles at 440 V In 20000 cycles at 690 V In/2 10000 cycles at 690 V In |
| Power dissipation per pole | 8.8 W |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 mm |
| Protection type | L : for overload protection (thermal) I : for short-circuit protection (magnetic) |
| Trip unit rating | 100 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 15 s at 6 x Ir |
| Instantaneous protection pick-up adjustment type Ii | Fixed |
| [Ii] instantaneous protection pick-up adjustment range | 800 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 60947-2 |
| 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 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 | 19.000 cm |
| Package 1 Weight | 1.785 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 | 12.886 kg |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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 >](#)



Sustainable Packaging Transparency RoHS/REACH

Resource performance

 Sustainable Packaging

Well-being performance

 Mercury Free

 Rohs Exemption Information Yes

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](#)

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

ComPacT NSX Moulded Case Circuit Breaker



Protection begins with prevention

Designed to prevent an electrical fire through integrated earth leakage protection with preventive maintenance thanks to its Everlink power connections.



Maximize power availability

By providing corrective, preventive, and predictive maintenance for asset management thanks to our advanced MicroLogic trip units.



Connectivity

Designed to connect to EcoStruxure Power, an IoT-connected architecture for improving every aspect of your power distribution system.



Offer Marketing Illustration

Product benefits / Features



ComPacT NSX
Range Accessories

Wireless auxiliary contact

Short terminal shield

Interphase barriers

Long terminal shield

Rotary handles

Standard auxiliary contact

MN undervoltage release

MX shunt release

Standard motor mechanism module

The image displays a collection of accessories for the ComPacT NSX circuit breaker range. At the top left, a green circular graphic partially shows a circuit breaker. Below it, nine individual accessories are arranged in a 3x3 grid, each with a small image and a text label. The accessories include: a wireless auxiliary contact (green and black), a short terminal shield (black), interphase barriers (black), a long terminal shield (black), rotary handles (black and green), a standard auxiliary contact (grey), an MN undervoltage release (black), an MX shunt release (yellow and black), and a standard motor mechanism module (black).