

# Product datasheet

Specifications



## Circuit breaker ComPacT NSX250B, 25kA at 415VAC, TMD trip unit 250A, 50 degrees C, 3 poles 3D

C25B3TM250C

### Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX250B
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	250 A at 50 °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
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
Breaking capacity code	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
[Uiimp] rated impulse withstand voltage	8 kV
[Ics] rated service 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 15 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	20000 cycles at 440 V In/2 10000 cycles at 440 V In 10000 cycles at 690 V In/2 5000 cycles at 690 V In

Excluding VAT, FCA Jabal Ali &amp; are subject to change – check with your local distributor.

<b>Power dissipation per pole</b>	18.75 W
<b>Mounting support</b>	Backplate
<b>Mounting position</b>	Horizontal and vertical 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) I : for short-circuit protection (magnetic)
<b>Trip unit rating</b>	250 A at 50 °C
<b>Long-time pick-up adjustment type <math>I_r</math> (thermal protection)</b>	Adjustable
<b>[<math>I_r</math>] long-time protection pick-up adjustment range</b>	0.7...1 x $I_n$
<b>Long-time protection delay adjustment type <math>t_r</math></b>	Fixed
<b>[<math>t_r</math>] long-time delay adjustment range</b>	120...400 s at 1.5 x $I_n$ 15 s at 6 x $I_r$
<b>Instantaneous protection pick-up adjustment type <math>I_{li}</math></b>	Adjustable
<b>[<math>I_{li}</math>] instantaneous protection pick-up adjustment range</b>	5...10 x $I_n$
<b>Earth-leakage protection</b>	Without
<b>Number of slots</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>	2.4 kg

## Environment

<b>Standards</b>	EN/IEC 60947-2
<b>Overvoltage category</b>	III
<b>Electrical shock protection class</b>	Class II on front face
<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 2000 m...5000 m with derating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## Contractual warranty

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**Warranty (in months)**

18



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint	318 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	11 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	303 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.

### Use Better

#### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	3874e08b-fcb8-4aa9-87c4-d36abebf2833
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes

### Use Longer

#### Lifetime extension

Repair	No
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### Use Again

#### Repack and remanufacture

Recyclability potential, in %	54
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No

## Offer Marketing Illustration

## Product benefits / Features

## ComPacT NSX

### Technical Features



## 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 Schneider Electric ComPacT NSX range accessories. At the top left is a green curved graphic containing a small image of a circuit breaker. To the right of this graphic, the text 'ComPacT NSX Range Accessories' is centered. Below this, nine individual accessory components are arranged in a 3x3 grid. Each component is accompanied by a descriptive label below it. The components include: a wireless auxiliary contact (a small green and white module), a short terminal shield (a black rectangular component), interphase barriers (a black L-shaped component), a long terminal shield (a black rectangular component), rotary handles (a black component with two handles), standard auxiliary contacts (a black component with two circular terminals), an MN undervoltage release (a black component with a small display), an MX shunt release (a black component with a yellow shunt), and a standard motor mechanism module (a black component with a red button and a handle).

## 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

### Technical Benefits



- Nominal current: 16 to 630 A and 9 breaking capacities for the 2 sizes of circuit breakers
- 1, 2, 3, and 4 pole versions available
- Large range of electronic and thermal-magnetic protections
- Plug and ready wiring system and communicating accessories
- Integrated earth leakage protection via MicroLogic Vigi (earth leakage circuit breaker - ELCB)
- Advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi