

Product datasheet

Specifications



Circuit breaker ComPacT NSX100F AC/DC. 18kA at 240VAC. TMD trip unit 100A. 1 pole 1d

C10F1TM100

Price: 2,486.29 ZAR

Main

| | |
|--------------------------------|---|
| Range | ComPacT |
| Product name | ComPacT NSX |
| Device short name | NSX100F |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 1P |
| Protected poles description | 1D |
| [In] rated current | 100 A at 40 °C |
| [Ue] rated operational voltage | 277 V AC 50/60 Hz 250 V DC |
| Network type | AC DC |
| Network frequency | 50/60 Hz |
| Suitability for isolation | Yes conforming to EN/IEC 60947-2 |
| Utilisation category | Category A |
| Breaking capacity | 18 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 250 V DC conforming to IEC 60947-2 |
| Breaking capacity code | F 18 kA 240 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

| | |
|--|---|
| [U] rated insulation voltage | 750 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 breaking capacity | 18 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 250 V DC conforming to IEC 60947-2 |
| Mechanical durability | 20000 cycles |
| Electrical durability | 20000 cycles at 277 V In/2 10000 cycles at 277 V In |
| Power dissipation per pole | 8.8 W |
| Mounting support | Backplate |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|--|--|
| 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) | Fixed |
| [Ir] long-time protection pick-up adjustment range | 1 x In |
| Long-time protection delay adjustment type tr | Fixed |
| Instantaneous protection pick-up adjustment type li | Fixed |
| [li] instantaneous protection pick-up adjustment range | 800 A |
| Earth-leakage protection | Without |
| Width (W) | 35 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 0.7 kg |

Environment

| | |
|--|--|
| Standards | EN/IEC 60947-2 |
| Overvoltage category | IV |
| Electrical shock protection class | Class II on front face |
| 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 | 4.300 cm |
| Package 1 Width | 13.000 cm |
| Package 1 Length | 17.600 cm |
| Package 1 Weight | 721.000 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 30.000 cm |

| | |
|------------------|-----------|
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 9.022 kg |

Contractual warranty

| | |
|----------------------|----|
| 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 53

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number 3874e08b-fcb8-4aa9-87c4-d36abebf2833

REACH Regulation [REACH Declaration](#)

Halogen-free status Product contains halogen above thresholds

PVC free Yes

Use Longer

Lifetime extension

Repair No

Use Again

Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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 overlaps a photograph of the main circuit breaker unit. Below this, the title 'ComPacT NSX Range Accessories' is presented in a bold, sans-serif font. The accessories are arranged in a 3x3 grid, each accompanied by a small product photograph and a text label. The labels are: 'Wireless auxiliary contact' (a green rectangular module), 'Short terminal shield' (a grey rectangular shield), 'Interphase barriers' (a black vertical barrier), 'Long terminal shield' (a grey rectangular shield), 'Rotary handles' (two black rotary handles connected by a metal link), 'Standard auxiliary contact' (a grey rectangular module with two terminals), 'MN undervoltage release' (a black rectangular module), 'MX shunt release' (a yellow and grey rectangular module), and 'Standard motor mechanism module' (a black rectangular module with a handle).

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
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

Technical Illustration

Assembly's dimensions

