

# Product datasheet

Specifications



Circuit breaker ComPacT NSX100F.  
36kA at 415VAC. TMD trip unit 80A.  
4 poles 3d

C10F6TM080

**Price: 7,753.09 ZAR**

## Main

|                                |  |
|--------------------------------|--|
| Range                          | ComPacT  |
| Product name                   | ComPacT NSX  |
| Device short name              | NSX100F  |
| Product or component type      | Circuit breaker  |
| Device application             | Distribution   |
| Poles description              | 4P   |
| Protected poles description    | 3D   |
| Neutral position               | Left   |
| [In] rated current             | 80 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              | 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 240 V AC 50/60 Hz conforming to UL 60947-4-1<br>25 kA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1<br>10 kA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1 |
| Breaking capacity code         | F 36 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              |

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

|  |   |
|--|---|
| <b>[Ics] rated service breaking capacity</b>                     | 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>12 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>4 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical durability</b>                                     | 50000 cycles  |
| <b>Electrical durability</b>                                     | 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  |
| <b>Power dissipation per pole</b>                                | 8.77 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>  | 80 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 delay adjustment range</b>                     | 120...400 s at 1.5 x In<br>15 s at 6 x Ir   |
| <b>Neutral protection setting</b>                                | No protection (3D)  |
| <b>Instantaneous protection pick-up adjustment type Ii</b>       | Fixed   |
| <b>[Ii] instantaneous protection pick-up adjustment range</b>    | 640 A   |
| <b>Earth-leakage protection</b>                                  | Without   |
| <b>Number of slots</b>   | 5 slot(s)   |
| <b>Width (W)</b>   | 140 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                  |

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|                   |          |
|-------------------|----------|
| Relative humidity | 0...95 % |
|-------------------|----------|

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|                    |  |
|--------------------|--|
| Operating altitude | 0...2000 m without derating<br>2000 m...5000 m with derating |
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## Packing Units

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|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

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|                              |   |
|------------------------------|---|
| Number of Units in Package 1 | 1 |
|------------------------------|---|

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|                  |           |
|------------------|-----------|
| Package 1 Height | 14.000 cm |
|------------------|-----------|

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|                 |           |
|-----------------|-----------|
| Package 1 Width | 15.000 cm |
|-----------------|-----------|

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|                  |           |
|------------------|-----------|
| Package 1 Length | 19.000 cm |
|------------------|-----------|

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|                  |          |
|------------------|----------|
| Package 1 Weight | 2.790 kg |
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|                        |     |
|------------------------|-----|
| Unit Type of Package 2 | S03 |
|------------------------|-----|

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|                              |   |
|------------------------------|---|
| Number of Units in Package 2 | 6 |
|------------------------------|---|

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|                  |           |
|------------------|-----------|
| Package 2 Height | 30.000 cm |
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|                 |           |
|-----------------|-----------|
| Package 2 Width | 30.000 cm |
|-----------------|-----------|

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|                  |           |
|------------------|-----------|
| Package 2 Length | 40.000 cm |
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|                  |           |
|------------------|-----------|
| Package 2 Weight | 14.121 kg |
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## Contractual warranty

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|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|

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## 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 163

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

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**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 illustration displays a collection of accessories for the ComPacT NSX circuit breaker range. At the top left, a large image shows a circuit breaker with a green arc behind it. Below this, 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).

Offer Marketing Illustration

Product benefits / Features

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Offer Marketing Illustration

Product benefits / Features

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## 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

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**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

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