

# Product datasheet

Specifications



Circuit breaker basic frame,  
ComPacT NSX100F, 36kA at  
415VAC 50/60 Hz, 100A, without  
trip unit, 4 poles

C10F4

## Main

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | ComPacT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product name                   | ComPacT NSX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Device short name              | NSX100F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product or component type      | Basic frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Device application             | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Poles description              | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Neutral position               | Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [In] rated current             | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Network type                   | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Network frequency              | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Suitability for isolation      | Yes conforming to EN/IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Utilisation category           | Category A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Breaking capacity              | 10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>25 kA at 480 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>22 kA Icu at 525 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>35 kA Icu at 440 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>8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Breaking capacity code         | F 36 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Control type                   | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting mode                  | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 800 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  | 11 kA at 525 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>36 kA at 380/415 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<br>85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>12.5 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                  | 50000 cycles conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                    |

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

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 | 10000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2<br>20000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>30000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>50000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Mounting support      | Backplate                                                                                                                                                                                                                                                    |
| Upside connection     | Front                                                                                                                                                                                                                                                        |
| Downside connection   | Front                                                                                                                                                                                                                                                        |
| Connection pitch      | 35 mm                                                                                                                                                                                                                                                        |
| Protection type       | Without protection                                                                                                                                                                                                                                           |
| Width (W)             | 140 mm                                                                                                                                                                                                                                                       |
| Height (H)            | 161 mm                                                                                                                                                                                                                                                       |
| Depth (D)             | 86 mm                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                |
|---------------------------------------|--------------------------------|
| Standards                             | EN/IEC 60947-2<br>UL 60947-4-1 |
| Overvoltage category                  | III                            |
| 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                    |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 14.000 cm  |
| Package 1 Width              | 14.500 cm  |
| Package 1 Length             | 19.500 cm  |
| Package 1 Weight             | 1.842 kg   |
| Unit Type of Package 2       | S03        |
| Number of Units in Package 2 | 6          |
| Package 2 Height             | 30.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 11.451 kg  |
| Unit Type of Package 3       | P12        |
| Number of Units in Package 3 | 48         |
| Package 3 Height             | 43.000 cm  |
| Package 3 Width              | 80.000 cm  |
| Package 3 Length             | 120.000 cm |
| Package 3 Weight             | 102.406 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                       | 86 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 10 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0.5 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]     | 72 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 3 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                    |
| Packaging without single use plastic   | Yes                                                                                    |
| SCIP Number                            | 206b752d-15ab-4228-8cd8-4e338f718b28                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen-free status                    | Product contains halogen above thresholds                                              |
| PVC free                               | Yes                                                                                    |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 54                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| 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  
Moulded Case Circuit Breaker



Maximize power availability

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



Protection begins with prevention

Designed to prevent an electrical fire and preventive maintenance thanks to its Everlink power connections.



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

### Range Accessories



Wireless auxiliary contact



Trip Unit



Interphase barriers



Terminal shields



Rotary handles



Standard auxiliary contact



MN undervoltage release



MX shunt release



Standard motor mechanism module

Offer Marketing Illustration

Product benefits / Features

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ComPacT NSX  
Technical Benefits



- Nominal current: 100A to 630A and 9 breaking capacities for the 2 sizes of circuit breakers.
- 3, and 4 pole versions available.
- Large range of electronic and thermal-magnetic protections.
- Plug and ready wiring system and communicating accessories.
- This basic frame comes without trip unit, and is compatible with any type of trip unit which has to be ordered separately.
- Compatible advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi.