

# Product datasheet

Specifications



Circuit breaker ComPacT  
NSX100F. 36kA at 415VAC. TMD  
trip unit 100A. 3 poles 3d

C10F3TM100

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                          |
| Product Name                                         | ComPacT NSX new generation                                                                                                                                                                                                                                                                                                                                                      |
| Device Short Name                                    | NSX100F                                                                                                                                                                                                                                                                                                                                                                         |
| 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 | 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 |
| Performance Level                                    | 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                                                                                                                                                                                                                                                                                                                                                    |
| [Ics] Rated Service Short-Circuit Breaking Capacity | 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 |
| Mechanical Durability                               | 50000 cycles                                                                                                                                                                                                                                                                                                                                            |

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

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                                     | 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 |
| Power Dissipation Per Pole                                | 8.8 W                                                                                                            |
| Mounting Support                                          | Backplate                                                                                                        |
| Mounting Position                                         | Horizontal and vertical<br>Flat on the back                                                                      |
| Upside Connection                                         | Front                                                                                                            |
| Downside Connection                                       | Front                                                                                                            |
| Connection Pitch                                          | 35 mm                                                                                                            |
| Protection Type                                           | L : for overload protection (thermal)<br>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<br>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                                                 |
| Product Certifications                | CCC<br>EAC<br>Marine                                         |
| 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<br>2000 m...5000 m with derating |

# Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 13.9 cm   |
| Package 1 Width              | 11.0 cm   |
| Package 1 Length             | 19.2 cm   |
| Package 1 Weight             | 1.786 kg  |
| Unit Type Of Package 2       | S03       |
| Number Of Units In Package 2 | 7         |
| Package 2 Height             | 30.0 cm   |
| Package 2 Width              | 30.0 cm   |
| Package 2 Length             | 40.0 cm   |
| Package 2 Weight             | 12.878 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-CO<sub>2</sub> 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 >](#)



Transparency   RoHS/REACH

Well-being performance

|   |                            |     |
|---|----------------------------|-----|
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free                   |     |

Certifications & Standards

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                     |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                             |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                               |