Specifications



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

C10F3TM100

### Main

Range	ComPacT	
product name	ComPacT NSX	
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 lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA lcu at 500 V AC 50/60 Hz conforming to IEC 60947-2 22 kA lcu at 525 V AC 50/60 Hz conforming to IEC 60947-2 8 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA lcu at 240 V AC 50/60 Hz conforming to UL 60947-4-1 25 kA lcu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 10 kA lcu at 600 V AC 50/60 Hz conforming to UL 60947-4-1	
Performance level	F 36 kA 415 V AC	
Trip unit name	TM-D	
Trip unit technology	Thermal-magnetic	
Trip unit protection functions	u	
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 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 12 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 12 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 4 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 4 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2     Mechanical durability   50000 cycles at 440 V In2 30000 cycles at 440 V In2 20000 cycles at 440 V In2 20000 cycles at 690 V In2 10000 cycles at 690 V In2 20000 cycles at 690 V In2     Power dissipation per pole   8.8 W     Mounting support   Backplate     Mounting position   Horizontal and vertical Flat on the back     Upside connection   Front     Connection pitch   35 mm     Protection type   L : for overload protection (magnetic)     Trip unit rating   100 A at 40 °C     Long-time pick-up adjustment type if (thermal protection pick-up adjustment range   0.71 x In adjustment range     If I long-time protection pick-up adjustment range   120400 s at 1.5 x In 15 s at 6 x Ir     Instantaneous protection pick-up adjustment range   5 sol(s)     Without   Not     Number of slots for electrical solts for electrical   5 sol(s)     Withit (W)   105 mm     Height (H)   161 mm		
Electrical durability   50000 cycles at 440 V ln/2 30000 cycles at 690 V ln/2 10000 cycles at 690 V ln/2 10000 cycles at 690 V ln     Power dissipation per pole   8.8 W     Mounting support   Backplate     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)   Adjustable     [Ir] long-time protection delay adjustment range   0.71 x ln     Long-time protection delay adjustment range   120400 s at 1.5 x ln 15 s at 6 x lr     Ir] long-time protection pick-up adjustment range   800 A     up adjustment range   800 A     up adjustment range   5 slot(s)     Without   Number of slots for electrical auxiliarites     Without   105 mm		36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 12 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2
30000 cycles at 400 V In     10000 cycles at 690 V In/2     10000 cycles at 690 V In     Power dissipation per pole   8.8 W     Mounting support   Backplate     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 pick-up adjustment range   0.71 x In adjustable     [Ir] long-time protection delay adjustment range   Fixed     Its at 6 x lr   15 s at 6 x lr     Instantaneous protection pick-up adjustment range   800 A     up adjustment range   800 A     Up adjustment range   800 A     Up adjustment range   5 slot(s)     Without   Number of slots for electrical sudilaries     Width (W)   105 mn     Height (H)   161 mm	Mechanical durability	50000 cycles
Mounting support   Backplate     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)   Adjustable     Ir] long-time protection delay adjustment range   0.71 x ln     Long-time protection delay adjustment range   120400 s at 1.5 x ln 15 s at 6 X lr     It] Instantaneous protection pick-up adjustment range   Fixed     Backplate   800 A   Earth-leakage protection pick-up adjustment range   Solo A     It] Instantaneous protection pick-up adjustment range   Solo A   Earth-leakage protection pick-up adjustment range   Solo A     It] Instantaneous protection pick-up adjustment range   Solo A   Earth-leakage protection pick-up adjustment range   Solo A     It] Is that aneous protection pick-up adjustment range   Solo A   Earth-leakage protection pick-up adjustment range   Solo A     It] Is that aneous protection pick-up adjustment range   Solo A   It] Is that aneous protection pick-up adjustment range   Solo A </td <td>Electrical durability</td> <td>30000 cycles at 440 V In 20000 cycles at 690 V In/2</td>	Electrical durability	30000 cycles at 440 V In 20000 cycles at 690 V In/2
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) Adjustable   Ing-time protection pick-up adjustment range 0.71 x In   Long-time protection delay adjustment type tr 120400 s at 1.5 x In 15 s at 6 x Ir   Instantaneous protection pick-up adjustment range Fixed   Bill in stantaneous protection pick-up adjustment range 800 A   Ling time rotection Without   Number of slots for electrical auxiliaries 5 slot(s)   Width (W) 105 mm   Height (H) 161 mm	Power dissipation per pole	8.8 W
Flat on the back   Upside connection Front   Downside connection Front   Connection pitch 35 mm   Protection type L : for overload protection (thermal) 1 : for short-circuit protection (magnetic)   Trip unit rating 100 A at 40 °C   Long-time pick-up adjustment type Ir (thermal protection pick-up adjustment range Adjustable   Long-time protection pick-up adjustment range 0.71 x ln   Ir] long-time protection delay adjustment type tr Fixed   Itr] long-time protection pick-up adjustment range 120400 s at 1.5 x ln 15 s at 6 x lr   Instantaneous protection pick-up adjustment range Fixed   Earth-leakage protection Without   Number of slots for electrical auxillaries 5 slot(s)   Width (W) 105 mm   Height (H) 161 mm	Mounting support	Backplate
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) Adjustable   [Ir] long-time protection pick-up adjustment type tr 0.71 x ln   Long-time protection delay adjustment type tr 120400 s at 1.5 x ln   [Ir] long-time protection pick-up adjustment type tr 120400 s at 1.5 x ln   [Ir] long-time protection pick-up adjustment type tr 120400 s at 1.5 x ln   [Ir] long-time protection pick-up adjustment range 120400 s at 1.5 x ln   [Ir] long-time protection pick-up adjustment range 5 s at 6 x lr   Instantaneous protection pick-up adjustment range 800 A   [II] instantaneous protection pick-up adjustment range 800 A   [II] instantaneous protection pick-up adjustment range 5 slot(s)   [III] instantaneous protection pick- up adjustment range 5 slot(s)   [III] instantaneous protection Without   Number of slots for electrical auxiliaries 5 slot(s)   Width (W) 105 mm   Height (H) 161 mm	Mounting position	
Connection pitch   35 mm     Protection type   L : for overload protection (thermal) L : 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   0.71 x In     Long-time protection delay adjustment type tr   120400 s at 1.5 x In 15 s at 6 x Ir     Instantaneous protection pick-up adjustment type Ii   Fixed     [Ir] long-time protection pick-up adjustment range   20400 s at 1.5 x In 15 s at 6 x Ir     Instantaneous protection pick-up adjustment type Ii   Fixed     [Ii] instantaneous protection pick-up adjustment range   800 A     Up adjustment range   5 slot(s)     Without   105 mm     Height (H)   161 mm	Upside connection	Front
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)   Adjustable     [Ir] long-time protection pick-up adjustment range   0.71 x ln     Long-time protection delay adjustment type tr   Fixed     [Ir] long-time protection delay adjustment type tr   120400 s at 1.5 x ln     [Ir] long-time protection pick-up adjustment type tr   120400 s at 1.5 x ln     [Ir] long-time protection pick-up adjustment range   15 s at 6 x lr     [Ir] long-time protection pick-up adjustment range   800 A     [Ii] instantaneous protection pick-up adjustment range   800 A     [Ii] instantaneous protection pick-up adjustment range   800 A     [Ii] without   105 mm     Height (H)   161 mm	Downside connection	Front
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   0.71 x ln     Long-time protection delay adjustment type tr   Fixed     [Ir] long-time protection delay adjustment range   120400 s at 1.5 x ln     Instantaneous protection pick-up adjustment type Ii   120400 s at 1.5 x ln     Instantaneous protection pick-up adjustment range   Fixed     Is s at 6 x lr   11 s s at 6 x lr     Instantaneous protection pick-up adjustment range   800 A     Up adjustment range   800 A     Up adjustment range   5 slot(s)     Without   105 mm     Height (H)   161 mm	Connection pitch	35 mm
Long-time pick-up adjustment type Ir (thermal protection)Adjustable[Ir] long-time protection pick-up adjustment range0.71 x lnLong-time protection delay adjustment type trFixed[Ir] long-time protection delay adjustment range120400 s at 1.5 x lnItr] long-time protection pick-up adjustment range120400 s at 1.5 x ln[Itr] long-time protection pick-up adjustment range120400 s at 1.5 x lnInstantaneous protection pick-up adjustment type IiFixed[Ii] instantaneous protection pick-up adjustment range800 AEarth-leakage protectionWithoutNumber of slots for electrical auxiliaries5 slot(s)Width (W)105 mmHeight (H)161 mm	Protection type	
type Ir (thermal protection)[Ir] long-time protection pick-up adjustment range0.71 x InLong-time protection delay adjustment type trFixed[tr] long-time protection delay adjustment range120400 s at 1.5 x In 15 s at 6 x IrInstantaneous protection pick-up adjustment type IiFixed[Ii] instantaneous protection pick- up adjustment range800 AEarth-leakage protection uxiliariesWithoutNumber of slots for electrical auxiliaries5 slot(s)Width (W)105 mmHeight (H)161 mm	Trip unit rating	100 A at 40 °C
adjustment range     Long-time protection delay adjustment type tr   Fixed     [tr] long-time protection delay adjustment range   120400 s at 1.5 x ln 15 s at 6 x lr     Instantaneous protection pick-up adjustment type li   Fixed     [li] 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		Adjustable
adjustment type tr     [tr] long-time protection delay adjustment range   120400 s at 1.5 x ln 15 s at 6 x lr     Instantaneous protection pick-up adjustment type li   Fixed     [li] 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		0.71 x ln
adjustment range   15 s at 6 x lr     Instantaneous protection pick-up   Fixed     adjustment type li   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		Fixed
adjustment type li     [li] 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		
up adjustment range     Earth-leakage protection   Without     Number of slots for electrical auxiliaries   5 slot(s)     Width (W)   105 mm     Height (H)   161 mm		Fixed
Number of slots for electrical auxiliaries 5 slot(s)   Width (W) 105 mm   Height (H) 161 mm		800 A
Auxiliaries   Width (W)   105 mm   Height (H)   161 mm	Earth-leakage protection	Without
Height (H) 161 mm		5 slot(s)
	Width (W)	105 mm
Depth (D) 86 mm	Height (H)	161 mm
	Depth (D)	86 mm
Net weight 2.05 kg	Net weight	2.05 kg

## Environment

Standards	EN/IEC 60947-2
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	-2570 °C
Ambient air temperature for storage	-5085 °C
Relative humidity	095 %

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	13.900 cm
Package 1 Width	11.000 cm
Package 1 Length	19.200 cm
Package 1 Weight	1.739 kg
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	12.573 kg

# Lenvironmental 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  $\geq$ 

${\mathcal Q}$ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	156
Environmental Disclosure	Product Environmental Profile

### **Use Better**

S Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	3874e08b-fcb8-4aa9-87c4-d36abebf2833
REACh Regulation	REACh Declaration
Halogen content performance	Product contains halogen above thresholds
PVC free	Yes

### Use Again

$^{\circlearrowright}$ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### **Technical Illustration**

### Assembly's dimensions

