# **Product data sheet**

Specifications



(!) Discontinued

# Circuit breaker, ComPact NSX100F, 36kA/415VAC, TMD trip unit 100A, 4 poles 4d

LV429650

Uiscontinued on: Oct 26, 2023

Important message: This product has been switched to new ComPacT range and is no longer commercialized.

#### Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100250
Device Short Name	NSX100F
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	4P
Protected Poles Description	4t
Neutral Position	Left
[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	10 kA at 600 V AC 50/60 Hz conforming to UL 508 25 kA at 480 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508 22 kA lcu at 525 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 35 kA lcu at 440 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 8 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA lcu at 220/240 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

[Uing] Rated Impulse Withstand Voltage   8 kV     [Uics] Rated Service Short-Circuit Breaking Capacity   11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 400 VAC 50/60 Hz conforming to IEC 60947-2 4 kA at 580/650 VAC 50/60 Hz conforming to IEC 60947-2 4 kA at 580/650 VAC 50/60 Hz conforming to IEC 60947-2 12.5 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2     Mechanical Durability   50000 cycles     Electrical Durability   10000 cycles at 680 V In 20000 cycles at 680 V In 20000 cycles at 440 V In 2     Mounting Support   Backplate     Upside Connection   Front     Connection Pitch   35 mm     Protection Type   L : for overload protection (thermal) 1 : for short-circuit protection (magnetic)     Trip Unit Rating   100.0 At 40 °C     Long-Time Pick-Up Adjustment Adjustment Range   0.71 x In Adjustable 15 s at 6 x ir     Short-Time Protection Pick-Up Adjustment Range   120400 s at 1.5 x In 15 s at 6 x ir     Short-Time Protection Pick-Up Adjustment Range   120400 s at 1.5 x In 15 s at 6 x ir     Short-Time Protection Pick-Up Adjustment Range   800.A     Short-Time Protection Pick-Up Adjustment Type Isd		
Breaking Capacity   35 kA at 440 V AC 50/80 Hz conforming to IEC 60947-2     36 kA at 380/415 VAC 50/80 Hz conforming to IEC 60947-2     4 kA at 660/990 V AC 50/60 Hz conforming to IEC 60947-2     35 kA at 220/240 VAC 50/60 Hz conforming to IEC 60947-2     12 St kA at 500 VAC 50/60 Hz conforming to IEC 60947-2     12 St kA at 500 VAC 50/60 Hz conforming to IEC 60947-2     Mechanical Durability   50000 cycles at 690 V In 20000 cycles at 690 V In 20000 cycles at 440 V In 50000 cycles at 440 V In 50000 cycles at 440 V In     Mounting Support   Backplate     Upside 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 Adjustment Type Tr   Adjustable     Urger (Thermal Protection Pick-Up Adjustment Range   120400 s at 1.5 x In 15 s at 6 x Ir     Short-Time Protection Delay Adjustment Range   Fixed     Short-Time Protection Pick-Up Adjustment Type T		8 kV
Electrical Durability   10000 cycles at 690 V In 2 30000 cycles at 640 V In 2 50000 cycles at 440 V In 50000 cycles at 440 V In 50000 cycles at 440 V In 2     Mounting Support   Backplate     Upside Connection   Front     Downside Connection   Front     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 Adjustment Range   Adjustable     Long-Time Protection Pick-Up   0.71 x In     Adjustment Range   120400 s at 1.5 x In 15 s at 6 x Ir     Short-Time Protection Pick-Up Adjustment Range   Fixed     Short-Time Protection Pick-Up Adjustment Range   800 A     Short-Time Protection Pick-Up Adjustment Range   800 A     Short-Time Protection Pick-Wp Adjustment Range   Fixed     Short-Time Protection Pick-Wp Adjustment Range   800 A     Up Adjustment Range   800 A     Without   Number Of Slots For Electrical 1 x Ir (4t)     Number Of Slots For Electrical Auxiliaries   5 slot(s)     With (W)   140 mm		35 kA at 440 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 4 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
20000 cycles at 460 V In/2 30000 cycles at 440 V In/2Mounting SupportBackplateUpside ConnectionFrontDownside ConnectionFrontConnection Pitch35 mmProtection TypeL: for overload protection (thermal) 1: for short-circuit protection (magnetic)Trip Unit Rating100 A at 40 °CLong-Time Protection Pick-Up Adjustment Range0.71 x In 15 sat 6 x IrCong-Time Protection Delay Adjustment Type TrFixedI'r] Long-Time Protection Delay Adjustment Type Is at 6 x IrFixedShort-Time Protection Pick-Up Adjustment Type IsFixedShort-Time Protection Delay Adjustment Type IsFixedShort-Time Protection Delay Adjustment Type IsFixedShort-Time Protection Delay Adjustment Type IsFixedShort-Time Protection Delay Adjustment Type IsdFixedShort-Time Protection Delay Adjustment Type IsdFixedBarth-Leakage ProtectionWithoutNumber Of Slots For Electrical Auxiliaries5 slot(s)Width (W)140 mm	Mechanical Durability	50000 cycles
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)   Adjustable     [Ir] Long-Time Protection Pick-Up Adjustment Type Tr   0.71 x ln     Ing-Time Protection Delay Adjustment Type Tr   Fixed     ITr] Long-Time Protection Delay Adjustment Type Tr   120400 s at 1.5 x ln 15 s at 6 x lr     Short-Time Protection Pick-Up Adjustment Type Tr   Fixed     Ilsd Short-Time Protection Pick-Up Adjustment Type Isd   800 A     Up Adjustment Type Tsd   Steed     Ilsd Short-Time Protection Delay Adjustment Type Isd   Fixed     Regeneration Protection Delay Adjustment Type Isd   Fixed     Madjustment Type Tr   Steed     Ilsd Short-Time Protection Delay Adjustment Type Isd   Fixed     Adjustment Type Tsd   Steed     Image: Short-Time Protection Delay Adjustment Type Isd   Steed     Mustharier State   Steed     Is at 0 (x)   11 (At)     Number Of Slots For Electrical Auxiliaries   Stor(s)	Electrical Durability	20000 cycles at 690 V ln/2 30000 cycles at 440 V ln
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 0.71 x ln   Adjustment Range 100. A at 1.5 x ln   Adjustment Range 120400 s at 1.5 x ln   Adjustment Type Ir Fixed   Short-Time Protection Pick-Up Fixed   Adjustment Type Isd 800 A   Up Adjustment Type Isd Fixed   Short-Time Protection Delay Adjustment Type Isd Fixed   Adjustment Type Isd Fixed   Madjustment Type Isd 800 A   Up Adjustment Range 800 A   Up Adjustment Type Isd Fixed   Adjustment Type Isd 1 x lr (4t)   Number Of Slots For Electrical Auxiliaries 5 slot(s)   Width (W) 140 mm	Mounting Support	Backplate
Connection Pitch35 mmProtection TypeL: for overload protection (thermal) I: for short-circuit protection (magnetic)Trip Unit Rating100 A at 40 °CLong-Time Pick-Up Adjustment Type Ir (Thermal Protection)Adjustable[Ir] Long-Time Protection Pick-Up Adjustment Range0.71 x InAdjustment Range0.71 x InIn State Protection Delay Adjustment Type TrFixed[Ir] Long-Time Protection Delay Adjustment Range120400 s at 1.5 x In 15 s at 6 x IrShort-Time Protection Pick-Up Adjustment RangeFixedShort-Time Protection Delay Adjustment RangeFixedShort-Time Protection Delay Adjustment RangeFixedShort-Time Protection Delay Adjustment RangeFixedShort-Time Protection Delay Adjustment Type IsdFixedShort-Time Protection Delay Adjustment Type TrFixedShort-Time Protection Delay Adjustment Type IsdFixedShort-Time Protection Delay Adjustment Type TrFixedShort-Time Protection Delay Adjustment Type TrFixedAdjustment Type TrFixedMumber Of Slots For Electrical AuxiliariesShort-Time Protectical	Upside Connection	Front
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)   Adjustable     [Ir] Long-Time Protection Pick-Up Adjustment Range   0.71 x ln     Adjustment Type Tr   Fixed     [Ir] Long-Time Protection Delay Adjustment Type Tr   120400 s at 1.5 x ln 15 s at 6 x lr     Short-Time Protection Pick-Up Adjustment Range   120400 s at 1.5 x ln 16 s at 6 x lr     Short-Time Protection Pick-Up Adjustment Range   Fixed     Short-Time Protection Pick-Up Adjustment Range   Fixed     Short-Time Protection Pick-Up Adjustment Range   800 A     Up Adjustment Type Isd   Bixed     Short-Time Protection Delay Adjustment Type Isd   Fixed     Short-Time Protection Delay Adjustment Type Isd   Stold     Learth-Leakage Protection   Without     Neutral Protection Settings   1 x lr (4t)     Number Of Slots For Electrical Auxiliaries   5 slot(s)     Width (W)   140 mm	Downside Connection	Front
I : for short-circuit protection (magnetic)Trip Unit Rating100 A at 40 °CLong-Time Pick-Up Adjustment Type Ir (Thermal Protection)Adjustable[Ir] Long-Time Protection Delay Adjustment Range0.71 x In FixedLong-Time Protection Delay Adjustment RangeFixedShort-Time Protection Pick-Up Adjustment Type IsdFixedShort-Time Protection Pick-Up Adjustment RangeFixedShort-Time Protection Pick-Up Adjustment RangeFixedShort-Time Protection Pick-Up Adjustment Type IsdFixedShort-Time Protection Delay Adjustment Range800 AUp Adjustment Type TsdFixedShort-Time Protection Delay Adjustment Type IsdFixedShort-Time Protection Dick- Up Adjustment Type Tsd800 AUp Adjustment Type Tsd5 sat 6 x IrShort-Time Protection Delay Adjustment Type TsdFixedShort-Time Protection Delay Adjustment Type TsdFixedNumber Of Slots For Electrical Auxiliaries1 x Ir (4t)Number Of Slots For Electrical Vidth (W)140 mm	Connection Pitch	35 mm
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)   Adjustable     IIr] Long-Time Protection Pick-Up Adjustment Range   0.71 x In     Long-Time Protection Delay Adjustment Type Tr   Fixed     [Tr] Long-Time Protection Delay Adjustment Range   120400 s at 1.5 x In     Short-Time Protection Pick-Up Adjustment Type Isd   Fixed     Short-Time Protection Pick-Up Adjustment Type Isd   Fixed     Short-Time Protection Pick-Up Adjustment Type Isd   Fixed     Short-Time Protection Delay Adjustment Type Isd   Fixed     Short-Time Protection Delay Adjustment Type Isd   Fixed     Short-Time Protection Delay Adjustment Type Tsd   Fixed     Reutral Protection Settings   1 x lr (4t)     Number Of Slots For Electrical Auxiliaries   5 slot(s)     Width (W)   140 mm	Protection Type	
Type Ir (Thermal Protection)[Ir] Long-Time Protection Pick-Up Adjustment Range0.71 x lnLong-Time Protection Delay Adjustment Type TrFixed[Tr] Long-Time Protection Delay Adjustment Range120400 s at 1.5 x ln 15 s at 6 x lrShort-Time Protection Pick-Up Adjustment Type IsdFixedShort-Time Protection Pick-Up Adjustment RangeFixedShort-Time Protection Pick-Up Adjustment Type IsdFixedShort-Time Protection Pick-Up Adjustment Range800 AUp Adjustment RangeFixedShort-Time Protection Delay Adjustment RangeFixedShort-Time Protection Delay Adjustment RangeFixedShort-Time Protection Delay Adjustment Type TsdFixedShort-Time Protection Delay Adjustment Type TsdFixedEarth-Leakage Protection Neutral Protection Settings1 x lr (4t)Number Of Slots For Electrical Auxiliaries5 slot(s)Width (W)140 mm	Trip Unit Rating	100 A at 40 °C
Adjustment RangeFixedLong-Time Protection Delay Adjustment Type TrFixed[Tr] Long-Time Protection Delay Adjustment Range120400 s at 1.5 x ln 15 s at 6 x lrShort-Time Protection Pick-Up Adjustment Type IsdFixedShort-Time Protection Pick-Up Adjustment RangeFixedShort-Time Protection Delay Adjustment Type Isd800 AIsdShort-Time Protection Delay FixedShort-Time Protection Delay Adjustment RangeFixedShort-Time Protection Delay Adjustment Type TsdFixedShort-Time Protection Delay Adjustment Type TsdFixedShort-Time Protection Delay Adjustment Type TsdFixedShort-Time Protection Settings1 x lr (4t)Neutral Protection Settings1 x lr (4t)Number Of Slots For Electrical Auxiliaries5 slot(s)Width (W)140 mm		Adjustable
Adjustment Type Tr     [Tr] Long-Time Protection Delay   120400 s at 1.5 x ln     Adjustment Range   15 s at 6 x lr     Short-Time Protection Pick-Up   Fixed     Adjustment Type Isd   800 A     Up Adjustment Range   800 A     Short-Time Protection Delay   Fixed     Short-Time Protection Delay   Fixed     Adjustment Type Tsd   800 A     Earth-Leakage Protection   Without     Neutral Protection Settings   1 x lr (4t)     Number Of Slots For Electrical   5 slot(s)     Width (W)   140 mm		0.71 x ln
Adjustment Range   15 s at 6 x lr     Short-Time Protection Pick-Up   Fixed     Adjustment Type Isd   800 A     [Isd] Short-Time Protection Pick-Up Adjustment Range   800 A     Short-Time Protection Delay   Fixed     Adjustment Type Tsd   Fixed     Earth-Leakage Protection   Without     Neutral Protection Settings   1 x lr (4t)     Number Of Slots For Electrical   5 slot(s)     Width (W)   140 mm		Fixed
Adjustment Type Isd     [Isd] Short-Time Protection Pick- Up Adjustment Range   800 A     Short-Time Protection Delay Adjustment Type Tsd   Fixed     Earth-Leakage Protection   Without     Neutral Protection Settings   1 x lr (4t)     Number Of Slots For Electrical Auxiliaries   5 slot(s)     Width (W)   140 mm		
Up Adjustment Range Fixed   Short-Time Protection Delay Adjustment Type Tsd Fixed   Earth-Leakage Protection Without   Neutral Protection Settings 1 x lr (4t)   Number Of Slots For Electrical Auxiliaries 5 slot(s)   Width (W) 140 mm		Fixed
Adjustment Type Tsd   Earth-Leakage Protection Without   Neutral Protection Settings 1 x lr (4t)   Number Of Slots For Electrical Auxiliaries 5 slot(s)   Width (W) 140 mm		800 A
Neutral Protection Settings 1 x lr (4t)   Number Of Slots For Electrical Auxiliaries 5 slot(s)   Width (W) 140 mm		Fixed
Number Of Slots For Electrical Auxiliaries 5 slot(s)   Width (W) 140 mm	Earth-Leakage Protection	Without
Auxiliaries   Width (W)   140 mm	Neutral Protection Settings	1 x lr (4t)
		5 slot(s)
Height (H) 161 mm	Width (W)	140 mm
	Height (H)	161 mm
Depth (D) 86 mm	Depth (D)	86 mm
Net Weight 2.4 kg	Net Weight	2.4 kg

### Environment

Standards	EN/IEC 60947	
Product Certifications	ССС	
	EAC	
	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	-2570 °C
Ambient Air Temperature For Storage	-5085 °C
Relative Humidity	095 %
Operating Altitude	02000 m without derating 2000 m5000 m with derating

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.4 cm
Package 1 Width	14.9 cm
Package 1 Length	19.3 cm
Package 1 Weight	2.314 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	9
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	21.592 kg

# **Contractual warranty**

Warranty

18 months

#### Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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



Eq

Rohs Exemption Information Yes

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov