# **Product datasheet**

Specifications





# Circuit breaker, ComPacT NSX100H, 70kA/415VAC, 3 poles, TMD trip unit 100A

C10H3TM100

#### Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX100H
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	100 kA lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA lcu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA lcu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	H 70 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	100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2	
breaking capacity	70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2	
	65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2	
	50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2	
	35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2	
	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2	
Mechanical durability	50000 cycles	

Electrical durability	50000 cycles at 440 V In/2 30000 cycles at 440 V In 20000 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)	Adjustable
[Ir] long-time protection pick-up adjustment range	0.71 x ln
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay adjustment range	120…400 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
Depth (D)	86 mm
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 %
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	14.0 cm
Package 1 Width	11.0 cm
Package 1 Length	19.0 cm
Package 1 Weight	1.784 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	12.882 kg

## Sustainability Screen Premium

**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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

#### **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