

# Product datasheet

Specifications



## Circuit breaker ComPacT NSX100H, 70kA at 415VAC, TMD trip unit 100A, 4 poles 3d

C10H6TM100

### 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	4P
Protected poles description	3D
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	100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu 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

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

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**Circuit breaker mounting mode** Fixed

## Complementary

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**[Ui] rated insulation voltage** 800 V AC 50/60 Hz

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**[Uimp] rated impulse withstand** 8 kV **voltage**

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**[Ics] rated service short-circuit breaking capacity** 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2  
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

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**Mechanical durability** 50000 cycles

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**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

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**Power dissipation per pole** 8.8 W

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**Mounting support** Backplate

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**Mounting position** Horizontal and vertical  
Flat on the back

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**Upside connection** Front

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**Downside connection** Front

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**Connection pitch** 35 mm

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**Protection type** L : for overload protection (thermal)  
I : for short-circuit protection (magnetic)

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**Trip unit rating** 100 A at 40 °C

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**Long-time pick-up adjustment type Ir (thermal protection)** Adjustable

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**[Ir] long-time protection pick-up adjustment range** 0.7...1 x In

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**Long-time protection delay adjustment type tr** Fixed

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**[Tr] long-time protection delay adjustment range** 120...400 s at 1.5 x In  
15 s at 6 x Ir

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**Neutral protection settings** No protection (3D)

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**Instantaneous protection pickup adjustment type li** Fixed

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**[li] instantaneous protection pick-up adjustment range** 800 A

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**Earth-leakage protection** Without

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**Number of slots for electrical auxiliaries** 5 slot(s)

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**Width (W)** 140 mm

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<b>Height (H)</b>	161 mm
<b>Depth (D)</b>	86 mm
<b>Product weight</b>	2.4 kg

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## Environment

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<b>Standards</b>	EN/IEC 60947
<b>Product certifications</b>	CCC EAC Marine
<b>Overvoltage category</b>	Class II
<b>Electrical shock protection class</b>	Class II
<b>Pollution degree</b>	3 conforming to IEC 60664-1
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-50...85 °C
<b>Relative humidity</b>	0...95 %
<b>Operating altitude</b>	0...2000 m without derating 2000 m...5000 m with derating

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	15.0 cm
<b>Package 1 Width</b>	17.0 cm
<b>Package 1 Length</b>	19.0 cm
<b>Package 1 Weight</b>	2.313 kg
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	14.28 kg

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## Offer Sustainability

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<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>PVC free</b>	Yes

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