



## Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250 ComPact NSX100...250 DC
Device short name	NSX100N
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	1P
Protected poles description	1t
[In] rated current	100 A at 40 °C
[Ue] rated operational voltage	250 V DC 277 V AC 50/60 Hz
Network type	DC 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	50 KA Icu at 250 V DC 1P conforming to IEC 60947-2 50 KA Icu at 125 V DC 1P conforming to IEC 60947-2 25 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	N 25 kA 240 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Control type	Toggle
Circuit breaker mounting mode	Fixed

## Complementary

[Ui] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	50 KA at 250 V DC conforming to IEC 60947-2 50 KA at 125 V DC conforming to IEC 60947-2 25 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	10000 Cycles at 277 V In 20000 cycles at 277 V In/2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	35 mm
Protection type	For overload protection (thermal) For short-circuit protection (magnetic)
Trip unit rating	100 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Fixed
[Ir] long-time protection pick-up adjustment range	1 In

[Im] magnetic protection pick-up range	800 A
Earth-leakage protection	Without
Width (W)	35 mm
Height (H)	161 mm
Depth (D)	86 mm

## Environment

Standards	EN/IEC 60947
Product certifications	CCC 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	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 %
Operating altitude	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	4.3 cm
Package 1 Width	13.0 cm
Package 1 Length	17.5 cm
Package 1 Weight	728.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.223 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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