



## Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250
Device short name	NSX100HB2
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	4P
Protected poles description	4t
Neutral position	Left
[In] rated current	80 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 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	HB2 100 kA 690 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 breaking capacity	100 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	50000 cycles
Electrical durability	10000 Cycles at 690 V In 20000 Cycles at 690 V In/2 30000 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) I : for short-circuit protection (magnetic)
Trip unit rating	80 A at 40 °C

Long-time pick-up adjustment type I <sub>r</sub> (thermal protection)	Adjustable
[I <sub>r</sub> ] long-time protection pick-up adjustment range	0.7...1 x I <sub>n</sub>
Long-time protection delay adjustment type t <sub>r</sub>	Fixed
[t <sub>r</sub> ] long-time protection delay adjustment range	120...400 S at 1.5 x I <sub>n</sub> 15 s at 6 x I <sub>r</sub>
Short-time protection pick-up adjustment type I <sub>sd</sub>	Fixed
[I <sub>sd</sub> ] Short-time protection pick-up adjustment range	640 A
Short-time protection delay adjustment type t <sub>sd</sub>	Fixed
Earth-leakage protection	Without
Neutral protection settings	1 x I <sub>r</sub> (4t)
Number of slots for electrical auxiliaries	5 slot(s)
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.4 kg

## Environment

Standards	EN/IEC 60947
Product certifications	EAC Marine CCC
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

Package 1 Weight	2.390 kg
Package 1 Height	13.500 cm
Package 1 width	14.100 cm
Package 1 Length	19.200 cm

## 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>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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