LV433219

circuit breaker ComPact NSX100HB1, 75 kA at 690 VAC, TMD trip unit 100 A, 4 poles 4d





Main

Product name ComPact NSX Range of product ComPact NSX100250 Device short name NSX100HB1 Product or component type Circuit breaker Protected poles 4P Protected poles 4t description Neutral position Left [In] rated current 100 A at 40 °C [Ue] rated operational voltage 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 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Toggle Circuit breaker mounting mode Circuit breaker Fixed	Range	ComPact
Device short name NSX100HB1 Product or component type Device application Distribution Number of poles 4P Protected poles 4t description Neutral position Left [In] rated current 100 A at 40 °C [Ue] rated operational voltage 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 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 85 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Product name	ComPact NSX
Product or component type Device application Number of poles 4P Protected poles description Neutral position Neutral position Left [In] rated current 100 A at 40 °C [Ue] rated operational voltage Network type AC Network frequency Suitability for isolation Ves conforming to EN/IEC 60947-2 Utilisation category Category A [Icu] rated ultimate short-circuit breaking capacity 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit protection functions Control type Toggle Circuit breaker Fixed	Range of product	ComPact NSX100250
Device application Number of poles 4P Protected poles description Neutral position Left [In] rated current 100 A at 40 °C [Ue] rated operational voltage Network type AC Network frequency Suitability for isolation Utilisation category Category A [Icu] rated ultimate short-circuit breaking capacity AS KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit protection functions Control type Toggle Circuit breaker Tip unit protection functions Control type Toggle Circuit breaker Tip unit protection functions Control type Toggle Tip unit protection Fixed	Device short name	NSX100HB1
Number of poles 4P Protected poles description Neutral position Left [In] rated current 100 A at 40 °C [Ue] rated operational voltage 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 80 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit protection functions Control type Toggle Circuit breaker Fixed	•	Circuit breaker
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Neutral position Neutral position Left	Number of poles	4P
[In] rated current 100 A at 40 °C [Ue] rated operational voltage 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 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 about a 525 V AC 50/60 Hz conforming to IEC 60947-2 AC Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	•	4t
Control type AC	Neutral position	Left
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 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	[In] rated current	100 A at 40 °C
Network frequency Suitability for isolation Ves conforming to EN/IEC 60947-2 Utilisation category [Icu] rated ultimate short-circuit breaking capacity 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed		690 V AC 50/60 Hz
Suitability for isolation Yes conforming to EN/IEC 60947-2 Utilisation category [Icu] rated ultimate short-circuit breaking capacity Respective Superior of the provided in the provided i	Network type	AC
Utilisation category [Icu] rated ultimate short-circuit breaking capacity 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Network frequency	50/60 Hz
[Icu] rated ultimate short-circuit breaking capacity 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Suitability for isolation	Yes conforming to EN/IEC 60947-2
short-circuit breaking capacity 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Performance level HB1 75 kA 690 V AC Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Utilisation category	Category A
Trip unit name TM-D Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	short-circuit breaking	60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to
Trip unit technology Thermal-magnetic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Performance level	HB1 75 kA 690 V AC
Trip unit protection functions Control type Toggle Circuit breaker Fixed	Trip unit name	TM-D
functions Control type Toggle Circuit breaker Fixed	Trip unit technology	Thermal-magnetic
Circuit breaker Fixed		LI
	Control type	Toggle
		Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[lcs] rated service short-circuit breaking capacity	85 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 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	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	120400 S at 1.5 x ln 15 s at 6 x lr
Short-time protection pick-up adjustment type Isd	Fixed
[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
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.4 kg

Environment

Standards	EN/IEC 60947
Product certifications	CCC Marine EAC
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

Package 1 Weight	2.412 kg	
Package 1 Height	1.350 dm	
Package 1 width	1.410 dm	
Package 1 Length	1.920 dm	

Offer Sustainability

Green Premium product
☐ REACh Declaration
Compliant E EU RoHS Declaration
Yes
₫Yes
China RoHS Declaration
Product Environmental Profile
☑ End Of Life Information

Contractual warranty

Warranty	18 months	