## Product data sheet Characteristics

# LV429553

circuit breaker ComPact NSX100B, 25 kA at 415 VAC, TMD trip unit 50 A, 3 poles 3d





#### Main

Range	ComPact	
Product name	ComPact NSX	<u>}</u>
Range of product	ComPact NSX100250	
Device short name	NSX100B	
Product or component type	Circuit breaker	
Device application	Distribution	<u>i</u>
Number of poles	3P	
Protected poles description	3t	i de
[In] rated current	50 A at 40 °C	, c
[Ue] rated operational voltage	690 V AC 50/60 Hz	imi
Network type	AC	
Network frequency	50/60 Hz	
Suitability for isolation	Yes conforming to EN/IEC 60947-2	<u>s</u>
Utilisation category	Category A	
[lcu] rated ultimate short-circuit breaking capacity	15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2	litute for and is n
Performance level	B 25 kA 415 V AC	
Trip unit name	TM-D	, a
Trip unit technology	Thermal-magnetic	of conded
Trip unit protection functions	LI	i i
Control type	Toggle	<u>.v</u>
Circuit breaker mounting mode	Fixed	

#### Complementary

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

[Uimp] rated impulse withstand voltage	8 kV
[lcs] rated service short-circuit breaking capacity	20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 7.5 kA at 500 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	50 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	500 A
Short-time protection delay adjustment type tsd	Fixed
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
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	-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
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Number of Units in Package 1	1	
Package 1 Weight	1.795 kg	
Package 1 Height	11.6 cm	
Package 1 width	14.4 cm	
Package 1 Length	19.5 cm	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months