Product data sheet Characteristics

LV431157

circuit breaker Compact NSX250B - Micrologic 5.2 A - 100 A - 4 poles 4d





Main

Product name ComPact NSX Range of product ComPact NSX100250 Device short name NSX250B Product or component type Device application Distribution Number of poles 4P Protected poles description 4t	Range	ComPact
Device short name NSX250B Product or component type Device application Number of poles Protected poles description Neutral position Left Iln] rated current Iln] rated operational voltage Network type AC Network frequency Suitability for isolation Utilisation category Ilcu] rated ultimate short-circuit breaking capacity Category A 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 40 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Performance level B 25 KA 415 V AC Trip unit name Micrologic 5.2 A Trip unit protection functions Control type Toggle Circuit breaker Fixed	Product name	ComPact NSX
Product or component type Device application Number of poles Protected poles description At	Range of product	ComPact NSX100250
type Device application Number of poles 4P Protected poles description 4t 3t + N/2 3t 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 [Icu] rated ultimate short-circuit breaking capacity Capacity Performance level B 25 kA 415 V AC Trip unit name Control type Toggle Circuit breaker Distribution Distribution AP AP AP AB AB AB AB AB AB AB	Device short name	NSX250B
Number of poles Protected poles description 3t + OSN 4t 3t + N/2 3t 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 Capacity AC 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 40 kA Icu at 220/240 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit protection functions Control type Toggle Circuit breaker Trip unit praction Fixed	•	Circuit breaker
Protected poles description 3t + OSN 4t 3t + N/2 3t 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 Utilisation category [Icu] rated ultimate short-circuit breaking capacity Capacity 25 KA Icu at 380/415 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 Performance level B 25 KA 415 V AC Trip unit name Micrologic 5.2 A Trip unit protection functions Control type Toggle Circuit breaker Tip unit breaker Tip unit protection functions Tip unit breaker Tip unit protection Fixed	Device application	Distribution
description 4t 3t + N/2 3t 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 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit protection functions Control type Toggle Circuit breaker Fixed	Number of poles	4P
[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 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Electronic Trip unit protection functions Control type Toggle Circuit breaker Fixed	•	4t 3t + N/2
[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 20 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Electronic Trip unit protection functions Control type Toggle Circuit breaker Fixed	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 50947-2 capacity 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 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Trip unit name Micrologic 5.2 A Trip unit technology Electronic 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 Capacity Suitability for isolation 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Electronic 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 Category A 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Trip unit protection functions Control type Toggle Circuit breaker Fixed	Network type	AC
Utilisation category [Icu] 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Electronic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Network frequency	50/60 Hz
[Icu] 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Electronic 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 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 Performance level B 25 kA 415 V AC Trip unit name Micrologic 5.2 A Trip unit technology Trip unit protection functions Control type Toggle Circuit breaker Fixed	Utilisation category	Category A
Trip unit name Micrologic 5.2 A Trip unit technology Electronic Trip unit protection functions Control type Toggle Circuit breaker Fixed	short-circuit breaking	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
Trip unit technology Electronic Trip unit protection functions Control type Toggle Circuit breaker Fixed	Performance level	B 25 kA 415 V AC
Trip unit protection functions Control type Circuit breaker Toggle Circuit breaker Toggle	Trip unit name	Micrologic 5.2 A
functions Control type Toggle Circuit breaker Fixed	Trip unit technology	Electronic
Circuit breaker Fixed		LSI
	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	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 15 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2	
Mechanical durability	20000 cycles	
Electrical durability	5000 Cycles at 690 V In 10000 Cycles at 690 V In/2 10000 Cycles at 440 V In 20000 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 (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection
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	40100 A
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	15400 S at 1.5 x lr 0.3511 S at 7.2 x lr 0.516 s at 6 x lr
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick-up adjustment range	1.510 x lr
Short-time protection delay adjustment type tsd	Adjustable
[tsd] Short-time protection delay adjustment range	00.4 s
Instantaneous protection pick-up adjustment type li	Adjustable
[li] instantaneous protection pick-up adjustment range	1.512 x ln
Earth-leakage protection	Without
Neutral protection settings	0.5 x Ir (3t + N/2) 1 x Ir (4t) 1.6 x Ir (3t + OSN) No protection (3t)
Zone selective interlocking ZSI	With
Number of slots for electrical auxiliaries	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Display type	LCD display
Type of measurement	Ammeter
Communication of data	Power quality Energy metering Time-stamped histories and event tables Protection and alarm settings Maximeters/Minimeters Demand current and power Instantaneous and demand values Maintenance indicators
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.8 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	-4085 °C
Relative humidity	095 %
Operating altitude	02000 m without derating 2000 m5000 m with derating

Packing Units

Package 1 Weight	2.800 kg	
Package 1 Height	1.000 dm	
Package 1 width	1.000 dm	
Package 1 Length	1.001 dm	

Offer Sustainability

•		
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€Yes	
China RoHS Regulation	☑ China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

Contractual warranty

Warranty	18 months