

Product data sheet

Specifications



Circuit breaker, ComPact NSX250HB1, 75kA/690VAC, MicroLogic 2.2 trip unit 160A, 3 poles 3d

LV433542

! Discontinued

! Discontinued on: Jul 2, 2025

Product availability: Non-Stock - Not normally stocked in distribution facility
Important message: This product has been switched to new ComPacT range and is no longer commercialized.

Main

Range	ComPact
Product name	ComPact NSX
Range of Product	ComPact NSX100...250
Device short name	NSX250HB1
Product or Component Type	Circuit breaker
Device Application	Distribution
Number of poles	3P
Protected poles description	3t
Line Rated Current	160 A 104 °F (40 °C)
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network Frequency	50/60 Hz
Suitability for isolation	Yes EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	85 kA Icu 500 V AC 50/60 Hz IEC 60947-2 80 kA Icu 525 V AC 50/60 Hz IEC 60947-2 75 kA Icu 660/690 V AC 50/60 Hz IEC 60947-2
Performance level	HB1 75 kA 690 V AC
Trip unit name	MicroLogic 2.2
Trip unit technology	Electronic
Trip unit protection functions	LSol
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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Ics] rated service short-circuit breaking capacity	85 kA 500 V AC 50/60 Hz IEC 60947-2 80 kA 525 V AC 50/60 Hz IEC 60947-2 75 kA 660/690 V AC 50/60 Hz IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	5000 cycles 690 V In 10000 cycles 690 V In/2 10000 cycles 440 V In 20000 cycles 440 V In/2
Mounting Support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	1.4 in (35 mm)
Protection type	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection
Trip unit rating	160 A 104 °F (40 °C)
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	63...160 A
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay adjustment range	11 s 7.2 x Ir 16 s 6 x Ir 400 s 1.5 x Ir
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable 9 settings
[Isd] Short-time protection pick-up adjustment range	1.5...10 x Ir
Short-time protection delay adjustment type tsd	Fixed
Instantaneous protection pick-up adjustment type Ii	Fixed
[Ii] instantaneous protection pick-up adjustment range	2400 A
Earth-leakage protection	Without
Zone selective interlocking ZSI	Without
Number of slots for electrical auxiliaries	5
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Width (W)	4.1 in (105 mm)
Height (H)	6.3 in (161 mm)
Depth (D)	3.4 in (86 mm)
Net Weight	5.3 lb(US) (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 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	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-58...185 °F (-50...85 °C)
Relative humidity	0...95 %
Operating altitude	0...6561.68 ft (0...2000 m) without derating 2000 m...5000 m with derating

Ordering and shipping details

Category	US10DE201101
Discount Schedule	0DE2
GTIN	3606480480355
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.3 in (10.8 cm)
Package 1 Width	5.3 in (13.5 cm)
Package 1 Length	7.6 in (19.2 cm)
Package weight(Lbs)	4.48 lb(US) (2.03 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

 Environmental footprint	
Total lifecycle Carbon footprint	299 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	11 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	287 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

Use Better

 Materials and Substances	
EU RoHS Directive	Compliant with Exemptions
SCIP Number	811c5f45-220d-4e22-b512-f9d771b72680
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

Use Longer

 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Circularity Profile	End of Life Information
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.