

Product data sheet

Specifications



Circuit breaker, ComPact NSX630HB2, 100kA/690VAC, MicroLogic 6.3E trip unit 630A, 3 poles 3d

LV433746

! Discontinued

! Discontinued on: Sep 15, 2023

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 NSX400...630
Device short name	NSX630HB2
Product or Component Type	Circuit breaker
Device Application	Distribution
Number of poles	3P
Protected poles description	3t
Line Rated Current	630 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	100 kA Icu 500 V AC 50/60 Hz IEC 60947-2 100 kA Icu 525 V AC 50/60 Hz IEC 60947-2 100 kA Icu 660/690 V AC 50/60 Hz IEC 60947-2
Performance level	HB2 100 kA 690 V AC
Trip unit name	MicroLogic 6.3 E
Trip unit technology	Electronic
Trip unit protection functions	LSIG
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	100 kA 500 V AC 50/60 Hz IEC 60947-2 100 kA 525 V AC 50/60 Hz IEC 60947-2 100 kA 660/690 V AC 50/60 Hz IEC 60947-2
Mechanical durability	15000 cycles
Electrical durability	2000 cycles 690 V In 6000 cycles 690 V In/2 4000 cycles 440 V In 8000 cycles 440 V In/2
Mounting Support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	1.8 in (45 mm)
Protection type	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection
Trip unit rating	630 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	250...630 A
Long-time protection delay adjustment type tr	Adjustable
[tr] long-time protection delay adjustment range	15...400 s 1.5 x Ir 0.35...11 s 7.2 x Ir 0.5...16 s 6 x Ir
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	1.5...11 x In
Short-time protection delay adjustment type tsd	Adjustable 5 settings
[tsd] Short-time protection delay adjustment range	0...0.4 s
Instantaneous protection pick-up adjustment type Ii	Adjustable
[Ii] instantaneous protection pick-up adjustment range	1.5...11 x In
Ground-fault protection pick-up adjustment type Ig	Adjustable 9 settings
[Ig] ground-fault protection pick-up adjustment range	0.4...1 x In In = 40 A 0.2...1 x In In > 40 A Ig enable on/off
Ground-fault protection time delay adjustment type tg	Adjustable
[tg] ground-fault protection time delay adjustment range	0...0.4 s I²t=off 0.1...0.4 s I²t=on
Earth-leakage protection	Without
Zone selective interlocking ZSI	With
Number of slots for electrical auxiliaries	6
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	Energy meter

Communication of data	Instantaneous and demand values Maximeters/minimeters Energy metering Protection and alarm settings Power quality Demand current and power Maintenance indicators Time-stamped histories and event tables
Width (W)	5.5 in (140 mm)
Height (H)	10.04 in (255 mm)
Depth (D)	4.3 in (110 mm)
Net Weight	13.7 lb(US) (6.2 kg)

Environment

Standards	EN/IEC 60947
Product Certifications	CCC EAC Marine
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	-40...185 °F (-40...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	3606480481345
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	6.0 in (15.2 cm)
Package 1 Width	6.0 in (15.2 cm)
Package 1 Length	11.5 in (29.2 cm)
Package weight(Lbs)	12.19 lb(US) (5.53 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	1 623 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	29 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.6 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 591 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.

Use Better



Materials and Substances

EU RoHS Directive	Compliant with Exemptions
SCIP Number	25ca3248-85d0-423a-a9d8-5b7aeb52e7b6
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
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Use Again



Repack and remanufacture

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