

# LV433726

circuit breaker ComPact NSX630HB1, 75 kA at 690 V AC, MicroLogic 6.3 E trip unit 630 A, 3 poles 3d



## Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX400...630
Device short name	NSX630HB1
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	3P
Protected poles description	3t
[In] rated current	630 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	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	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
[Ics] 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	15000 cycles
Electrical durability	2000 Cycles at 690 V In 6000 Cycles at 690 V In/2 4000 Cycles at 440 V In 8000 cycles at 440 V In/2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Trip unit rating	630 A at 40 °C
Long-time pick-up adjustment type I <sub>r</sub> (thermal protection)	Adjustable 9 settings
[I <sub>r</sub> ] long-time protection pick-up adjustment range	250...630 A
Long-time protection delay adjustment type t <sub>r</sub>	Adjustable
[t <sub>r</sub> ] long-time protection delay adjustment range	15...400 S at 1.5 x I <sub>r</sub> 0.35...11 S at 7.2 x I <sub>r</sub> 0.5...16 s at 6 x I <sub>r</sub>
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type I <sub>sd</sub>	Adjustable
[I <sub>sd</sub> ] Short-time protection pick-up adjustment range	1.5...11 x I <sub>n</sub>
Short-time protection delay adjustment type t <sub>sd</sub>	Adjustable 5 settings
[t <sub>sd</sub> ] Short-time protection delay adjustment range	0...0.4 s
Instantaneous protection pick-up adjustment type I <sub>i</sub>	Adjustable
[I <sub>i</sub> ] instantaneous protection pick-up adjustment range	1.5...11 x I <sub>n</sub>
Ground-fault protection pick-up adjustment type I <sub>g</sub>	Adjustable 9 settings
[I <sub>g</sub> ] ground-fault protection pick-up adjustment range	0.2...1 x I <sub>n</sub> I <sub>g</sub> enable on/off
Ground-fault protection time delay adjustment type t <sub>g</sub>	Adjustable 5 settings
[t <sub>g</sub> ] ground-fault protection time delay adjustment range	0...0.4 S I <sup>2</sup> t=off 0.1...0.4 s I <sup>2</sup> t=on
Earth-leakage protection	Without
Zone selective interlocking ZSI	With
Number of slots for electrical auxiliaries	6 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 105 % I <sub>r</sub> (red) for overload LED 90 % I <sub>r</sub> (orange) for overload
Display type	LCD display
Type of measurement	Energy meter
Communication of data	Instantaneous and demand values Protection and alarm settings Power quality Time-stamped histories and event tables Maintenance indicators Demand current and power Energy metering Maximeters/minimeters
Width (W)	140 mm
Height (H)	255 mm
Depth (D)	110 mm
Net weight	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 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	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	5.79 kg
Package 1 Height	15.2 cm
Package 1 width	15.2 cm
Package 1 Length	29.2 cm

## Offer Sustainability

EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
----------	-----------