

# LV433747

circuit breaker ComPact NSX630HB2, 100 kA at 690 VAC, MicroLogic 6.3 E trip unit 630 A, 4 poles 4d



## 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	4P
Protected poles description	3t + OSN 4t 3t + N/2 3t
Neutral position	Left
[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	100 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to 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
[Ics] rated service short-circuit breaking capacity	100 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 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
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
Neutral protection settings	0.5 x I <sub>r</sub> (3t + N/2) 1 x I <sub>r</sub> (4t) 1.6 x I <sub>r</sub> (3t + OSN) No protection (3t)
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	Maintenance indicators Demand current and power Energy metering Maximeters/Minimeters Instantaneous and demand values Power quality Protection and alarm settings Time-stamped histories and event tables
Width (W)	185 mm
Height (H)	255 mm
Depth (D)	110 mm
Net weight	8.13 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

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Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

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### Packing Units

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Package 1 Weight	8.340 kg
Package 1 Height	15.200 cm
Package 1 width	20.300 cm
Package 1 Length	29.200 cm

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### Contractual warranty

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Warranty	18 months
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