



## Main

Range	Compact
Product name	Compact NSX
Product or component type	Circuit breaker
Device short name	Compact NSX630HB1
Device application	Distribution
Poles description	4P
Protected poles description	3t + N/2 3t 4t
Neutral position	Left
Network type	AC
Network frequency	50/60 Hz
[In] rated current	630 A at 40 °C
[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ue] rated operational voltage	690 V AC 50/60 Hz
Breaking capacity code	HB1 75 kA 690 V AC
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
[Ics] rated service 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
Suitability for isolation	Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 2.3
Trip unit technology	Electronic

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

Trip unit protection functions	LSol
Pollution degree	3 conforming to IEC 60664-1

## Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Auxiliary contact composition	Without
Mechanical durability	15000 cycles
Electrical durability	6000 cycles 690 V In/2 conforming to IEC 60947-2 2000 cycles 690 V In conforming to IEC 60947-2 4000 cycles 440 V In conforming to IEC 60947-2 8000 cycles 440 V In/2 conforming to IEC 60947-2
Connection pitch	45 mm
Local signalling	LED 90 % I <sub>r</sub> LED ready LED 105 % I <sub>r</sub>
Neutral protection setting	0.5 x I <sub>r</sub> (3t + N/2) 1 x I <sub>r</sub> (4t) No protection (3t)
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	630 A at 40 °C
Long time pick-up adjustment type I <sub>r</sub>	Adjustable 9 settings
Long time pick-up adjustment range	0.9...1 x I <sub>o</sub>
Long time delay adjustment type	Fixed
[Tr] long-time delay adjustment range	11 s at 7.2 x I <sub>r</sub> 16 s at 6 x I <sub>r</sub> 400 s at 1.5 x I <sub>r</sub>
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type I <sub>sd</sub>	Adjustable 9 settings
[I <sub>sd</sub> ] short-time pick-up adjustment range	1.5...10 x I <sub>r</sub>
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type I <sub>i</sub>	Fixed
Instantaneous pick-up adjustment range	6900 A
Height	255 mm
Width	185 mm
Depth	110 mm
Product weight	8.13 kg
Compatibility code	NSX630

## Environment

Overvoltage category	Class II
Electrical shock protection class	Class II
Standards	EN/IEC 60947
Product certifications	CCC EAC Marine
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-35...70 °C

Ambient air temperature for storage	-55...85 °C
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### Offer Sustainability

Sustainable offer status	Green Premium product
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> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>

### Contractual warranty

Warranty	18 months
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