

# Product data sheet

Specifications



## Circuit breaker, ComPact NSX400HB1, 75kA/690VAC, MicroLogic 2.3 trip unit 400A, 4 poles 4d

LV433623

❗ Discontinued

❗ Discontinued on: Dec 25, 2023

**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	NSX400HB1
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	4P
Protected Poles Description	4t 3t + N/2 3t
Neutral Position	Left
[In] Rated Current	400 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 2.3
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

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

<b>[Ics] Rated Service Short-Circuit Breaking Capacity</b>	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
<b>Mechanical Durability</b>	15000 cycles
<b>Electrical Durability</b>	3000 cycles at 690 V In 6000 cycles at 690 V In/2 6000 cycles at 440 V In 12000 cycles at 440 V In/2
<b>Mounting Support</b>	Backplate
<b>Upside Connection</b>	Front
<b>Downside Connection</b>	Front
<b>Connection Pitch</b>	45 mm
<b>Protection Type</b>	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection
<b>Trip Unit Rating</b>	400 A at 40 °C
<b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b>	Adjustable 9 settings
<b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>	160...400 A
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Fixed
<b>[Tr] Long-Time Protection Delay Adjustment Range</b>	11 s at 7.2 x Ir 16 s at 6 x Ir 400 s at 1.5 x Ir
<b>Thermal Memory</b>	20 minutes before and after tripping
<b>Short-Time Protection Pick-Up Adjustment Type Isd</b>	Adjustable 9 settings
<b>[Isd] Short-Time Protection Pick-Up Adjustment Range</b>	1.5...10 x Ir
<b>Short-Time Protection Delay Adjustment Type Tsd</b>	Fixed
<b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>	Fixed
<b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>	4800 A
<b>Earth-Leakage Protection</b>	Without
<b>Neutral Protection Settings</b>	0.5 x Ir (3t + N/2) 1 x Ir (4t) No protection (3t)
<b>Zone Selective Interlocking Zsi</b>	Without
<b>Number Of Slots For Electrical Auxiliaries</b>	6 slot(s)
<b>Local Signalling</b>	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
<b>Width (W)</b>	185 mm
<b>Height (H)</b>	255 mm
<b>Depth (D)</b>	110 mm
<b>Net Weight</b>	7.9 kg

## Environment

<b>Standards</b>	EN/IEC 60947
<b>Product Certifications</b>	EAC Marine CCC

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	-50...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 Height	15.2 cm
Package 1 Width	20.3 cm
Package 1 Length	29.2 cm
Package 1 Weight	7.92 kg

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
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>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>