

# Product data sheet

Specifications



circuit breaker, VigiComPact  
NSX630N, 50kA at 415VAC,  
MicroLogic 2.3 trip unit, 630A, add-  
on Vigi MB module, 4P 4d

LV432934

⚠ Discontinued on: Mar 30, 2022

⚠ Discontinued

## Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX400...630
Device Short Name	VigiComPact NSX630N
Product Or Component Type	Circuit breaker with Vigi add-on
Device Application	Distribution
Number Of Poles	4P
Protected Poles Description	3t + N/2 3t 4t
Neutral Position	Left
[In] Rated Current	630 A at 40 °C
[Ue] Rated Operational Voltage	440 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 at 240 V AC 50/60 Hz conforming to UL 508 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 kA at 600 V AC 50/60 Hz conforming to UL 508 50 kA at 480 V AC 50/60 Hz conforming to UL 508 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	N 50 kA 415 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
-------------------------------	-------------------

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>[Uimp] Rated Impulse Withstand Voltage</b>	8 kV
<b>[Ics] Rated Service Short-Circuit Breaking Capacity</b>	11 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
<b>Mechanical Durability</b>	15000 cycles
<b>Electrical Durability</b>	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
<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>	630 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>	250...630 A
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Fixed
<b>[Tr] Long-Time Protection Delay Adjustment Range</b>	16 s at 6 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>	6900 A
<b>Earth-Leakage Protection</b>	With
<b>Earth-Leakage Add-On Module Name</b>	MB
<b>Earth-Leakage Protection Class</b>	Class A
<b>Earth-Leakage Protection Sensitivity Adjustment Type Iōn</b>	Fixed
<b>[Iōn] Earth-Leakage Protection Sensitivity Adjustment Range</b>	0.3 A
<b>Earth-Leakage Protection Time Delay Adjustement Type Δt</b>	Adjustable 4 settings
<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>	7 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>	180 mm

Height (H)	355 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	-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

## Contractual warranty

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

## 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 >](#)



RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

## Certifications & Standards

Eu Rohs Directive	Compliant <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins