

# Product datasheet

Specifications



## circuit breaker ComPact NSX630F, 36 kA at 415 VAC, MicroLogic 2.3 trip unit 630 A, 4 poles 4d

LV432877

⚠ Discontinued

⚠ Discontinued on: Jan 3, 2024

⚠ To be end-of-service on: Sep 3, 2026

## Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX400...630
Device Short Name	NSX630F
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	4P
Protected Poles Description	4t 3t 3t + N/2
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	40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 240 V AC 50/60 Hz conforming to UL 508 25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 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 35 kA at 480 V AC 50/60 Hz conforming to UL 508 20 kA at 600 V AC 50/60 Hz conforming to UL 508 20 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	F 36 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

# Complementary

<b>[U<sub>I</sub>] Rated Insulation Voltage</b>	800 V AC 50/60 Hz
<b>[U<sub>imp</sub>] Rated Impulse Withstand Voltage</b>	8 kV
<b>[I<sub>cs</sub>] Rated Service Short-Circuit Breaking Capacity</b>	40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 380/415 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 10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 30 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 I<sub>r</sub> (Thermal Protection)</b>	Adjustable 9 settings
<b>[I<sub>r</sub>] Long-Time Protection Pick-Up Adjustment Range</b>	250...630 A
<b>Long-Time Protection Delay Adjustment Type T<sub>r</sub></b>	Fixed
<b>[T<sub>r</sub>] Long-Time Protection Delay Adjustment Range</b>	16 s at 6 x I <sub>r</sub>
<b>Thermal Memory</b>	20 minutes before and after tripping
<b>Short-Time Protection Pick-Up Adjustment Type I<sub>sd</sub></b>	Adjustable 9 settings
<b>[I<sub>sd</sub>] Short-Time Protection Pick-Up Adjustment Range</b>	1.5...10 x I <sub>r</sub>
<b>Short-Time Protection Delay Adjustment Type T<sub>sd</sub></b>	Fixed
<b>Instantaneous Protection Pick-Up Adjustment Type I<sub>i</sub></b>	Fixed
<b>[I<sub>i</sub>] Instantaneous Protection Pick-Up Adjustment Range</b>	6900 A
<b>Earth-Leakage Protection</b>	Without
<b>Neutral Protection Settings</b>	0.5 x I <sub>r</sub> (3t + N/2) 1 x I <sub>r</sub> (4t) No protection (3t)
<b>Zone Selective Interlocking Z<sub>si</sub></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 % I <sub>r</sub> (red) for overload LED 90 % I <sub>r</sub> (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>	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
Package 1 Height	15.0 cm
Package 1 Width	20.0 cm
Package 1 Length	29.0 cm
Package 1 Weight	7.493 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	3
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	24.013 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 [REACH Declaration](#)

Eu RoHS Directive Compliant with Exemptions

China RoHS Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)