

# Product data sheet

Specifications



## Circuit breaker, ComPact NSX630F, 36kA/415VAC, MicroLogic 7.3E Vigi trip unit 570A, 3 poles 3d

LV434630

⚠ Discontinued on: Jun 30, 2023

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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	NSX630F
Product Or Component Type	Earth leakage circuit breaker
Device Application	Distribution
Number Of Poles	3P
Protected Poles Description	3t
[In] Rated Current	570 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	40 kA Icu at 220/240 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 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 7.3 E
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSIR
Control Type	Toggle
Circuit Breaker Mounting Mode	Fixed

### Complementary

[Ui] Rated Insulation Voltage	500 V AC 50/60 Hz
[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ics] Rated Service Short-Circuit Breaking Capacity	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 30 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	20000 cycles

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>Electrical Durability</b>	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) S : for short time short-circuit protection I : for instantaneous short-circuit protection R : for earth-leakage protection
<b>Trip Unit Rating</b>	570 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...570 A
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Adjustable
<b>[Tr] Long-Time Protection Delay Adjustment Range</b>	15...400 s at 1.5 x Ir 0.5...16 s at 6 x Ir 0.35...11 s at 7.2 x Ir
<b>Thermal Memory</b>	20 minutes before and after tripping
<b>Short-Time Protection Pick-Up Adjustment Type Isd</b>	Adjustable
<b>[Isd] Short-Time Protection Pick-Up Adjustment Range</b>	1.5...10 x Ir
<b>Short-Time Protection Delay Adjustment Type Tsd</b>	Adjustable
<b>[Tsd] Short-Time Protection Delay Adjustment Range</b>	0...0.4 s
<b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>	Adjustable
<b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>	1.5...12 x In
<b>Earth-Leakage Protection</b>	Integrated
<b>Earth-Leakage Protection Class</b>	Class A
<b>Earth-Leakage Protection Sensitivity Adjustment Type IΔn</b>	Adjustable
<b>[IΔn] Earth-Leakage Protection Sensitivity Adjustment Range</b>	300 mA 500 mA 1 A 3 A 5 A 10 A
<b>Earth-Leakage Protection Specific Mode</b>	OFF using the IΔn rotary switch
<b>Earth-Leakage Protection Time Delay Adjustment Type Δt</b>	Adjustable
<b>[Δt] Earth-Leakage Protection Time Delay Adjustment Range</b>	0 ms 60 ms 150 ms 500 ms 1 s
<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>Display Type</b>	LCD display
<b>Type Of Measurement</b>	Energy meter

Width (W)	140 mm
Height (H)	255 mm
Depth (D)	110 mm
Net Weight	6.2 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
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	16.8 cm
Package 1 Width	25.5 cm
Package 1 Length	14.0 cm
Package 1 Weight	7.5 kg

## Contractual warranty

Warranty	18 months
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# Sustainability



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

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## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
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