

# Product data sheet

Specifications



Circuit breaker, ComPact NS630bN, 50kA/415VAC, Micrologic 5.0E trip unit, 630A, fixed, 3 poles 3d

34420

 To be discontinued on: Apr 30, 2024

 To be discontinued

## Main

Range	ComPact
Product Name	ComPact NS
Range Of Product	ComPact NS630b...1600
Device Short Name	Compact NS630bN
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	3P
Protected Poles Description	3D
(In) Rated Current Up To 65 °C	630 A at 50 °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 B
[Icu] Rated Ultimate Short-Circuit Breaking Capacity	30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 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 40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	N 50 kA 415 V AC
Trip Unit Name	MicroLogic 5.0 E
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSI
Control Type	Toggle Rotary handle
Circuit Breaker Mounting Mode	Fixed

## Complementary

[Uij] Rated Insulation Voltage	800 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947-2

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>	30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 220/240 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 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
<b>[Icw] Rated Short-Time Withstand Current</b>	19.2 kA 1 s conforming to IEC 60947-2
<b>Mechanical Durability</b>	10000 cycles
<b>Electrical Durability</b>	2000 cycles at 690 V In 4000 cycles at 690 V In/2 5000 cycles at 440 V In 6000 cycles at 440 V In/2
<b>Power Losses</b>	10 W
<b>Mounting Support</b>	Backplate
<b>Upside Connection</b>	Front
<b>Downside Connection</b>	Front
<b>Connection Pitch</b>	70 mm
<b>Protection Type</b>	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection
<b>Trip Unit Rating</b>	630 A at 50 °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>	0.4...1 x In
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Adjustable 9 settings
<b>[Tr] Long-Time Protection Delay Adjustment Range</b>	12.5...600 s at 1.5 x Ir 0.5...24 s at 6 x Ir 0.7...16.6 s at 7.2 x Ir
<b>Thermal Memory</b>	20 mn
<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>	Adjustable
<b>[Tsd] Short-Time Protection Delay Adjustment Range</b>	0.1...0.4 s I <sup>2</sup> t=on 0...0.4 s I <sup>2</sup> t=off
<b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>	Adjustable
<b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>	2...15 x In Off
<b>Earth-Leakage Protection</b>	Without
<b>Zone Selective Interlocking Zsi</b>	With
<b>Auxiliary Contact Composition</b>	1 NO/NC
<b>Local Signalling</b>	4 LEDs (red) for fault indication 1 LED (yellow) for overload
<b>Display Type</b>	LCD display
<b>Type Of Measurement</b>	Energy meter
<b>Width (W)</b>	210 mm
<b>Height (H)</b>	327 mm
<b>Depth (D)</b>	147 mm
<b>Net Weight</b>	14 kg

## Environment

Standards	EN/IEC 60947-2
Product Certifications	ASTA ASEFA
Pollution Degree	3 conforming to IEC 60947
Ip Degree Of Protection	IP40 conforming to IEC 60529
Ik Degree Of Protection	IK07 conforming to EN 50102
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	37.0 cm
Package 1 Width	39.5 cm
Package 1 Length	23.0 cm
Package 1 Weight	11.892 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.

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[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>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>