

Product datasheet

Specifications



Circuit breaker, ComPacT NSX630N, 50kA, AC, 3P3D, 630A, Mic5.3E

C63N35E630

Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX630N
Breaking capacity code	N
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[In] rated current	630 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Trip unit name	MicroLogic 5.3 E
Trip unit type	Electronic
Trip unit rating	630 A at 40 °C
Control type	Toggle Rotary handle Extended rotary handle
Mounting mode	Fixed

Complementary

Long time delay adjustment type	Adjustable
[Ui] rated insulation voltage	800 V AC 50/60 Hz conforming to EN/IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV
[Icu] rated ultimate short-circuit breaking capacity	85 kA Icu at 220/240 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to EN/IEC 60947-2 42 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 30 kA Icu at 500 V AC 50/60 Hz conforming to EN/IEC 60947-2 22 kA Icu at 525 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to EN/IEC 60947-2

[Ics] rated service short-circuit breaking capacity	85 kA at 220/240 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to EN/IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to EN/IEC 60947-2 11 kA at 525 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to EN/IEC 60947-2
Mechanical durability	15000 cycles
Electrical durability	8000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 6000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2 2000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch without spreaders	45 mm
Connections - terminals	4 screw type terminals wire size 240 mm ² aluminium/copper
[tr] long-time delay adjustment range	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
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	250...630 A
Thermal memory	20 minutes before and after tripping
[I_{sd}] short-time pick-up adjustment range	1.5...10 x Ir
Short-time pick-up adjustment type I_{sd}	Adjustable 9 settings
Short-time delay adjustment type	Fixed
[t_{sd}] short-time delay adjustment range	0...0.4 s
Instantaneous pick-up adjustment range	1.5...11 x In
Instantaneous pick-up adjustment type I_i	Adjustable
Local signalling	LED ready LED 90 % Ir LED 105 % Ir
Electrical data recording	Maintenance indicators
Zone selective interlocking ZSI	With
Width	140 mm
Height	255 mm
Depth	110 mm
Product weight	6.2 kg
Communication of data	Total energy
Display type	LCD display
Type of measurement	Energy meter

Environment

Standards	EN/IEC 60947
Product certifications	CCC EAC Marine
Overvoltage category	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	-35...70 °C
Ambient air temperature for storage	-40...85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.0 cm
Package 1 Width	16.0 cm
Package 1 Length	29.0 cm
Package 1 Weight	6.29 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	1 631 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	38 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.8 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 591 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Packaging

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	25ca3248-85d0-423a-a9d8-5b7aeb52e7b6
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

Use Longer



Lifetime extension

Repair	No
Updatability	Yes

Use Again



Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



ComPacT NSX
Range Accessories

Wireless auxiliary contact

Short terminal shield

Interphase barriers

Long terminal shield

Rotary handles

Standard auxiliary contact

MN undervoltage release

MX shunt release

Standard motor mechanism module

The image displays a collection of accessories for the ComPacT NSX circuit breaker range. At the top left, a green circular graphic partially overlaps a main circuit breaker unit. Below this, nine individual accessories are arranged in a 3x3 grid, each with a small image and a text label. The accessories include: a wireless auxiliary contact (green and black), a short terminal shield (black), interphase barriers (black), a long terminal shield (black), rotary handles (black with green accents), a standard auxiliary contact (grey), an MN undervoltage release (black), an MX shunt release (yellow and black), and a standard motor mechanism module (black).

Offer Marketing Illustration

Product benefits / Features

ComPacT NSX Moulded Case Circuit Breaker



Protection begins with prevention

Designed to prevent an electrical fire through integrated earth leakage protection with preventive maintenance thanks to its Everlink power connections.



Maximize power availability

By providing corrective, preventive, and predictive maintenance for asset management thanks to our advanced MicroLogic trip units.



Connectivity

Designed to connect to EcoStruxure Power, an IoT-connected architecture for improving every aspect of your power distribution system.



Offer Marketing Illustration

Product benefits / Features



ComPacT NSX

Technical Benefits

- Nominal current: 16 to 630 A and 9 breaking capacities for the 2 sizes of circuit breakers
- 1, 2, 3, and 4 pole versions available
- Large range of electronic and thermal-magnetic protections
- Plug and ready wiring system and communicating accessories
- Integrated earth leakage protection via MicroLogic Vigi (earth leakage circuit breaker - ELCB)
- Advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi