

Product datasheet

Specifications



Circuit breaker, ComPacT NSX100S, 100kA, AC, 3P3D, 80A, TMD

C10S3TM080

Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX100S
Breaking capacity code	S
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	80 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Trip unit name	TM-D
Trip unit type	Thermal-magnetic
Trip unit rating	80 A at 40 °C
Control type	Toggle Rotary handle Extended rotary handle
Mounting mode	Fixed

Complementary

Long time delay adjustment type	Fixed
[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	120 kA Icu at 220/240 V AC 50/60 Hz conforming to EN/IEC 60947-2 100 kA Icu at 380/415 V AC 50/60 Hz conforming to EN/IEC 60947-2 90 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 65 kA Icu at 500 V AC 50/60 Hz conforming to EN/IEC 60947-2 40 kA Icu at 525 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA Icu at 660/690 V AC 50/60 Hz conforming to EN/IEC 60947-2

[Ics] rated service short-circuit breaking capacity	120 kA at 220/240 V AC 50/60 Hz conforming to EN/IEC 60947-2 100 kA at 380/415 V AC 50/60 Hz conforming to EN/IEC 60947-2 90 kA at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 65 kA at 500 V AC 50/60 Hz conforming to EN/IEC 60947-2 40 kA at 525 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA at 660/690 V AC 50/60 Hz conforming to EN/IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	20000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 10000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 10000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2 5000 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	35 mm
Connections - terminals	screw type terminals wire size 300 mm ² aluminium/copper
[tr] long-time delay adjustment range	120...400 s at 1.5 x In 15 s at 6 x Ir
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment range	640 A
Instantaneous pick-up adjustment type Ii	Fixed
Local signalling	Positive contact indication
Width	105 mm
Height	161 mm
Depth	86 mm
Product weight	2.4 kg

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	-50...85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.2 cm
Package 1 Width	11.1 cm

Package 1 Length	18.9 cm
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Package 1 Weight	2.15 kg
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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	306 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	16 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	286 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	4 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	3874e08b-fcb8-4aa9-87c4-d36abebf2833
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

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	57
End of life manual availability	End of Life Information
Take-back	No

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 large circuit breaker is shown against a green circular background. Below it, 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 and green), 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



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

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.

