

# Product datasheet

Specifications



## Circuit breaker, ComPacT NSX400H, 70kA, AC, 4P4D, 400A, Mic5.3E

C40H45E400

### Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX400H
Breaking capacity code	H
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Neutral position	Left
Neutral protection setting	No protection 0.5 x Ir 1 x Ir
Protected poles description	4D
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	400 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	400 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	100 kA Icu at 220/240 V AC 50/60 Hz conforming to EN/IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to EN/IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA Icu at 500 V AC 50/60 Hz conforming to EN/IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to EN/IEC 60947-2 20 kA Icu at 660/690 V AC 50/60 Hz conforming to EN/IEC 60947-2

<b>[Ics] rated service short-circuit breaking capacity</b>	100 kA at 220/240 V AC 50/60 Hz conforming to EN/IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to EN/IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 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
<b>Mechanical durability</b>	15000 cycles
<b>Electrical durability</b>	12000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 6000 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 3000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2
<b>Mounting support</b>	Backplate
<b>Upside connection</b>	Front
<b>Downside connection</b>	Front
<b>Connection pitch without spreaders</b>	45 mm
<b>Connections - terminals</b>	4 screw type terminals wire size 240 mm <sup>2</sup> aluminium/copper
<b>[tr] long-time 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>Long time pick-up adjustment type Ir</b>	Adjustable
<b>Long time pick-up adjustment range</b>	160...400 A
<b>Thermal memory</b>	20 minutes before and after tripping
<b>[I<sub>sd</sub>] short-time pick-up adjustment range</b>	1.5...10 x Ir
<b>Short-time pick-up adjustment type I<sub>sd</sub></b>	Adjustable 9 settings
<b>Short-time delay adjustment type</b>	Fixed
<b>[t<sub>sd</sub>] short-time delay adjustment range</b>	0...0.4 s
<b>Instantaneous pick-up adjustment range</b>	1.5...12 x In
<b>Instantaneous pick-up adjustment type I<sub>i</sub></b>	Adjustable
<b>Local signalling</b>	LED ready LED 90 % Ir LED 105 % Ir
<b>Electrical data recording</b>	Maintenance indicators
<b>Zone selective interlocking ZSI</b>	With
<b>Width</b>	185 mm
<b>Height</b>	255 mm
<b>Depth</b>	110 mm
<b>Product weight</b>	7.9 kg
<b>Communication of data</b>	Total energy
<b>Display type</b>	LCD display
<b>Type of measurement</b>	Energy meter

## Environment

<b>Standards</b>	EN/IEC 60947
<b>Product certifications</b>	CCC EAC Marine
<b>Overvoltage category</b>	Class II

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<b>Pollution degree</b>	3 conforming to IEC 60664-1
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>IK degree of protection</b>	IK07 conforming to IEC 62262
<b>Ambient air temperature for operation</b>	-35...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	15 cm
<b>Package 1 Width</b>	20 cm
<b>Package 1 Length</b>	29 cm
<b>Package 1 Weight</b>	8.23 kg

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## Contractual warranty

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<b>Warranty (in months)</b>	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	808 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	37 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]	770 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## 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	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
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	<a href="#">End of Life Information</a>
Take-back	No

Offer Marketing Illustration

Product benefits / Features

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**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 illustration displays a collection of accessories for the ComPacT NSX circuit breaker range. At the top left, a partial view of the main circuit breaker is shown against a green 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 (white), 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

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Offer Marketing Illustration

Product benefits / Features

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## 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

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## 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