

# Product datasheet

Specifications



## Circuit breaker, ComPacT NSX100H, 70kA/415VAC, 3 poles, MicroLogic Vigi 4.2 trip unit 40A

C10H34V040

### Main

Range	ComPacT new generation
product name	ComPacT NSX new generation
Device short name	NSX100H
Product or component type	Earth leakage circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	40 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	100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 240 V AC 50/60 Hz conforming to UL 60947-4-1 65 kA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 10 kA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1
Performance level	H 70 kA 415 V AC
Trip unit name	MicroLogic 4.2
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
[Uiimp] rated impulse withstand voltage	8 kV

<b>[Ics] rated service short-circuit breaking capacity</b>	100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
<b>Mechanical durability</b>	50000 cycles
<b>Electrical durability</b>	50000 cycles at 440 V In/2 30000 cycles at 440 V In 20000 cycles at 690 V In/2 10000 cycles at 690 V In
<b>Power dissipation per pole</b>	5.8 W N 5.8 W L1 and L3 4.9 W L2
<b>Mounting support</b>	Backplate
<b>Mounting position</b>	Horizontal and vertical Flat on the back
<b>Upside connection</b>	Front
<b>Downside connection</b>	Front
<b>Connection pitch</b>	35 mm
<b>Protection type</b>	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection R : for earth-leakage protection
<b>Trip unit rating</b>	40 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>	18...40 A
<b>Long-time protection delay adjustment type tr</b>	Fixed
<b>[tr] long-time protection delay adjustment range</b>	400 s at 1.5 x Ir 16 s at 6 x Ir 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>	Fixed
<b>Instantaneous protection pick-up adjustment type li</b>	Fixed
<b>[li] instantaneous protection pick-up adjustment range</b>	600 A
<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>	30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 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

[Δt] Earth-leakage protection time delay adjustment range	0 ms 60 ms 150 ms 500 ms 1 s
Zone selective interlocking ZSI	Without
Number of slots for electrical auxiliaries	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Width (W)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	2.05 kg

## Environment

Standards	EN/IEC 60947-2
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	-50...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	14.000 cm
Package 1 Width	11.500 cm
Package 1 Length	19.000 cm
Package 1 Weight	2.230 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	13.868 kg

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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) **38**

Environmental Disclosure [Product Environmental Profile](#)

### Use Better

#### Materials and Substances

Recycled metal content at CR level **0**

[EU RoHS Directive](#) Compliant with Exemptions

REACH Regulation [REACH Declaration](#)

Silicon free **No**

### Use Longer

#### Lifetime extension

Upgradeability **No**

### Use Again

#### Repack and remanufacture

Circularity Profile [End of Life Information](#)

WEEE  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Halogen content performance Product contains halogen above thresholds

Take-back **No**