

Circuit breaker, ComPacT NSX250N, 50kA/415VAC, 4 poles, MicroLogic 2.2 trip unit 100A

C25N42D100

Main

Mani		
Range	ComPacT new generation	
product name	ComPacT NSX new generation	
Device short name	NSX250N	
Product or component type	Circuit breaker	
Device application	Distribution	
Poles description	4P	
Protected poles description	4D 3D + N/2 3D + N/2	
Neutral position	Left	
[In] rated current	100 A at 40 °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 A	
[lcu] rated ultimate short-circuit breaking capacity	90 kA Icu at 220/240 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 36 kA Icu at 520 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 50 kA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1 15 kA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1	
Performance level	N 50 kA 415 V AC	
Trip unit name	MicroLogic 2.2	
Trip unit technology	Electronic	
Trip unit protection functions	LSoI	
Control type	Toggle	
Circuit breaker mounting mode	Fixed	

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV

[Ics] rated service short-circuit breaking capacity	90 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 36 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	
Mechanical durability	20000 cycles	
Electrical durability	20000 cycles at 440 V In/2 10000 cycles at 440 V In 10000 cycles at 690 V In/2 5000 cycles at 690 V In	
Power dissipation per pole	17.6 W	
Mounting support	Backplate	
Mounting position	Horizontal and vertical Flat on the back	
Upside connection	Front	
Downside connection	Front	
Connection pitch	35 mm	
Protection type	L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection	
Trip unit rating	100 A at 40 °C	
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings	
[Ir] long-time protection pick-up adjustment range	40100 A	
Long-time protection delay adjustment type tr	Fixed	
[tr] long-time protection delay adjustment range	400 s at 1.5 x lr 16 s at 6 x lr 11 s at 7.2 x lr	
Neutral protection settings	0.5 x Ir (3D + N/2) 1 x Ir (4D) No protection (3D)	
Thermal memory	20 minutes before and after tripping	
Short-time protection pick-up adjustment type Isd	Adjustable 9 settings	
[Isd] Short-time protection pick- up adjustment range	1.510 x lr	
Short-time protection delay adjustment type tsd	Fixed	
Instantaneous protection pick-up adjustment type li	Fixed	
[li] instantaneous protection pick- up adjustment range	1500 A	
Earth-leakage protection	Without	
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)	140 mm	
Height (H)	161 mm	
Depth (D)	86 mm	
Net weight	2.8 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	-2570 °C
Ambient air temperature for storage	-5085 °C
Relative humidity	095 %
Operating altitude	02000 m without derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14 cm
Package 1 Width	15 cm
Package 1 Length	19 cm
Package 1 Weight	2.5 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	15 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)	70
Environmental Disclosure	Product Environmental Profile

Use Better

Recycled metal content at CR level	0
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
PVC free	Yes
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