# C10N32D100

Circuit breaker, ComPacT NSX100N, 50kA/415VAC, 3 poles, MicroLogic 2.2 trip unit 100A





#### Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX100N
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[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
[Icu] 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 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
Performance level	N 50 kA 415 V AC
Trip unit name	MicroLogic 2.2
Trip unit technology	Electronic
Trip unit protection functions	LSol
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
[lcs] 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	50000 cycles
Electrical durability	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
Power dissipation per pole	4.7 W

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. This documentation is not integrated to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Mounting position  Horizontal and vertical Flat on the back  Upside connection  Front  Downside connection  Front  Connection pitch  Protection type  L: for overload protection (long time) So: for short time short-circuit protection with I: for instantaneous short-circuit protection  Trip unit rating  100 A at 40 °C  Long-time pick-up adjustment type Ir (thermal protection)  [Ir] long-time protection pick-up adjustment range  Long-time protection delay adjustment type tr  [tr] long-time protection delay adjustment range  400 S at 1.5 x Ir 16 S at 6 x Ir	n fixed delay
Downside connection  Connection pitch  35 mm  Protection type  L: for overload protection (long time) So: for short time short-circuit protection with I: for instantaneous short-circuit protection  Trip unit rating  100 A at 40 °C  Long-time pick-up adjustment type Ir (thermal protection)  [Ir] long-time protection pick-up adjustment range  Long-time protection delay adjustment type tr  [tr] long-time protection delay adjustment range  400 S at 1.5 x Ir	າ fixed delay
Connection pitch  Protection type  L: for overload protection (long time) So: for short time short-circuit protection with I: for instantaneous short-circuit protection  Trip unit rating  100 A at 40 °C  Long-time pick-up adjustment type Ir (thermal protection)  [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 Ir	า fixed delay
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protection)  [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 Ir	
Long-time protection delay adjustment type tr  [tr] long-time protection delay adjustment range  400 S at 1.5 x lr	
[tr] long-time protection delay adjustment range 400 S at 1.5 x lr	
11 s at 7.2 x lr	
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 1500 A range	
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) 105 mm	
Height (H) 161 mm	
Depth (D) 86 mm	
Net weight 2.05 kg	

## Environment

EN/IEC 60947
CCC[RETURN]EAC[RETURN]Marine
Class II
Class II
3 conforming to IEC 60664-1
IP40 conforming to IEC 60529
IK07 conforming to IEC 62262
-2570 °C
-5085 °C
095 %
02000 m without derating 2000 m5000 m with derating

### **Packing Units**

POF.	
PCE	
1	
14.0 cm	
11.0 cm	
19.2 cm	
1.833 kg	
S03	
7	
	1 14.0 cm 11.0 cm 19.2 cm 1.833 kg

Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	13.206 kg

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Compliant with Exemptions	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☑ End Of Life Information	