# **Product datasheet**

Specifications





Circuit breaker, ComPact NSX160N, 50kA/415VAC, MicroLogic 5.2A trip unit 100A, 3 poles 3d

LV430891

(!) Discontinued

() Discontinued on: 4 Oct 2021

### Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100250
Device Short Name	NSX160N
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	3P
Protected Poles Description	3t
[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	10 kA at 600 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508 10 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA lcu at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 480 V AC 50/60 Hz conforming to UL 508 36 kA lcu at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 90 kA lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	N 50 KA 415 V AC
Trip Unit Name	MicroLogic 5.2 A
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSI
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

Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Ics] Rated Service Short-Circuit Breaking Capacity	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 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 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	40000 cycles
Electrical Durability	7500 cycles at 690 V In 15000 cycles at 690 V In/2 20000 cycles at 440 V In 40000 cycles at 440 V In/2
Mounting Support	Backplate
Upside Connection	Front
Downside Connection	Front
Connection Pitch	35 mm
Protection Type	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection
Trip Unit Rating	100 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable
[Ir] Long-Time Protection Pick-Up Adjustment Range	40100 A
Long-Time Protection Delay Adjustment Type Tr	Adjustable
[Tr] Long-Time Protection Delay Adjustment Range	15400 s at 1.5 x lr 0.3511 s at 7.2 x lr 0.516 s at 6 x lr
Thermal Memory	20 minutes before and after tripping
Thermal Memory Short-Time Protection Pick-Up Adjustment Type Isd	20 minutes before and after tripping Adjustable
Short-Time Protection Pick-Up	
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick-	Adjustable
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay	Adjustable 1.510 x lr
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay	Adjustable 1.510 x lr Adjustable
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up	Adjustable 1.510 x lr Adjustable 00.4 s
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick-	Adjustable 1.510 x lr Adjustable 00.4 s Adjustable
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick- Up Adjustment Range	Adjustable 1.510 x lr Adjustable 00.4 s Adjustable 1.515 x ln
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick- Up Adjustment Range Earth-Leakage Protection	Adjustable       1.510 x lr       Adjustable       00.4 s       Adjustable       1.515 x ln       Without
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick- Up Adjustment Range Earth-Leakage Protection Zone Selective Interlocking Zsi Number Of Slots For Electrical	Adjustable       1.510 x lr       Adjustable       00.4 s       Adjustable       1.515 x ln       Without       Without
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick- Up Adjustment Range Earth-Leakage Protection Zone Selective Interlocking Zsi Number Of Slots For Electrical Auxiliaries	Adjustable         1.510 x lr         Adjustable         00.4 s         Adjustable         1.515 x ln         Without         With         5 slot(s)         Flashing LED (green) for ready to operate LED 105 % lr (red) for overload
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick- Up Adjustment Range Earth-Leakage Protection Zone Selective Interlocking Zsi Number Of Slots For Electrical Auxiliaries Local Signalling	Adjustable         1.510 x lr         Adjustable         00.4 s         Adjustable         1.515 x ln         Without         With         5 slot(s)         Flashing LED (green) for ready to operate         LED 105 % lr (red) for overload         LED 90 % lr (orange) for overload
Short-Time Protection Pick-Up Adjustment Type Isd [Isd] Short-Time Protection Pick- Up Adjustment Range Short-Time Protection Delay Adjustment Type Tsd [Tsd] Short-Time Protection Delay Adjustment Range Instantaneous Protection Pick-Up Adjustment Type Ii [Ii] Instantaneous Protection Pick- Up Adjustment Range Earth-Leakage Protection Zone Selective Interlocking Zsi Number Of Slots For Electrical Auxiliaries Local Signalling Display Type	Adjustable         1.510 x lr         Adjustable         00.4 s         Adjustable         1.515 x ln         Without         With         5 slot(s)         Flashing LED (green) for ready to operate LED 105 % lr (red) for overload LED 90 % lr (orange) for overload         LCD display

Height (H)	161 mm
Depth (D)	86 mm
Net Weight	2.2 kg

# Environment

Standards	EN/IEC 60947
Product Certifications	CCC EAC Marine
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	-4085 °C
Relative Humidity	095 %
Operating Altitude	02000 m without derating 2000 m5000 m with derating

# **Packing Units**

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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10 cm
Package 1 Width	10 cm
Package 1 Length	10.01 cm
Package 1 Weight	2.2 kg

### **Contractual warranty**

Warranty

18 months

# Sustainability Screen

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



RoHS/REACh

#### Well-being performance

Mercury Free

Rohs Exemption Information Yes

### **Certifications & Standards**

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information