

# Product data sheet

Specifications



circuit breaker ComPact NSXm N (50 kA at 415 VAC), 3P 3d, 160 A rating Micrologic 4.1 trip unit, lugs and busbar connectors

LV426783

 **Discontinued on:** Oct 26, 2023

 **Discontinued**

**Important message:** This product has been switched to new ComPacT range and is no longer commercialized.

## Main

Range	ComPact
Product Name	ComPact NSXm
Range Of Product	ComPact NSXm
Device Short Name	NSXm 160N
Product Or Component Type	Earth leakage circuit breaker
Device Application	Distribution Protection
Number Of Poles	3P
Protected Poles Description	3D
[In] Rated Current	160 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	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
Performance Level	N 50 kA 415 V AC
Trip Unit Name	MicroLogic 4.1
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSolR
Control Type	Toggle
Circuit Breaker Mounting Mode	By screws Clip-on

## Complementary

[Ui] Rated Insulation Voltage	500 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

<b>[Ics] Rated Service Short-Circuit Breaking Capacity</b>	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
<b>Mechanical Durability</b>	20000 cycles
<b>Electrical Durability</b>	10000 cycles at 440 V In 20000 cycles at 440 V In/2
<b>Mounting Support</b>	Plate DIN rail
<b>Connection Terminals</b>	compression lug/busbar
<b>Connection Pitch</b>	35 mm with spreaders 27 mm without spreaders
<b>9 Mm Pitches</b>	9 module
<b>Protection Type</b>	L : for overload protection (thermal) 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>	160 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>	63...160 A
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Fixed
<b>[Tr] Long-Time Protection Delay Adjustment Range</b>	5 s at 7.2 x Ir 8 s at 6 x Ir 200 s at 1.5 x Ir
<b>Thermal Memory</b>	20 minutes before and after tripping
<b>Short-Time Protection Pick-Up Adjustment Type Isd</b>	Adjustable 9 settings
<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>[Tsd] Short-Time Protection Delay Adjustment Range</b>	0.02 s
<b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>	Fixed
<b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>	2000 A
<b>Earth-Leakage Protection</b>	Integrated
<b>Earth-Leakage Protection Sensitivity Adjustment Type Iōn</b>	Adjustable
<b>[Iōn] Earth-Leakage Protection Sensitivity Adjustment Range</b>	0.03...5 A
<b>Earth-Leakage Sensitivity</b>	30 mA for class A 100 mA for class A 300 mA for class A 500 mA for class A 1000 mA for class A 30 mA for class AC 100 mA for class AC 300 mA for class AC 500 mA for class AC 1000 mA for class AC 3000 mA for class AC 5000 mA for class AC
<b>Earth-Leakage Protection Time Delay Adjustment Type Δt</b>	Adjustable
<b>[Δt] Earth-Leakage Protection Time Delay Adjustment Range</b>	0 ms 60 ms 150 ms 500 ms 1000 ms

Neutral Protection Settings	No protection 1 x Ir 0.5 x Ir
Number Of Slots For Electrical Auxiliaries	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
Local Signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Width (W)	108 mm
Height (H)	144 mm
Depth (D)	80 mm
Net Weight	1.63 kg
Colour	Grey (RAL 7016)

## Environment

Standards	EN/IEC 60947
Product Certifications	CCC EAC
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	-40...85 °C
Relative Humidity	0...95 %
Operating Altitude	0...2000 m without derating 2000...5000 m with derating

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	13 cm
Package 1 Width	15.5 cm
Package 1 Length	19 cm
Package 1 Weight	1.2 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	4
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.241 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	32
Package 3 Height	45 cm
Package 3 Width	60 cm

Package 3 Length	80 cm
Package 3 Weight	48.92 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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.

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[Guide to assess a product's sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
California Proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>