Product datasheet

Specifications

Green Premium™

Discontinued

circuit breaker ComPact NSXm N (50 kA at 415 VAC), 4P 4d, 50 A rating Micrologic 4.1 trip unit, lugs and busbar connectors

LV426786

Discontinued on: 13 Nov 2022

End-of-service on: 26 Oct 2023

Main

Range	ComPact
Product Name	ComPact NSXm
Range Of Product	ComPact NSXm
Device Short Name	NSXm 50N
Product Or Component Type	Earth leakage circuit breaker
Device Application	Distribution Protection
Number Of Poles	4P
Protected Poles Description	4D
Neutral Position	Left
[In] Rated Current	50 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	LSoIR
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

[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
Mechanical Durability	20000 cycles
Electrical Durability	10000 cycles at 440 V In 20000 cycles at 440 V In/2
Mounting Support	Plate DIN rail
Connection Terminals	compression lug/busbar
Connection Pitch	35 mm with spreaders 27 mm without spreaders
9 Mm Pitches	12 module
Protection Type	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
Trip Unit Rating	50 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	20...50 A
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay Adjustment Range	5 s at 7.2 x Ir 8 s at 6 x Ir 200 s at 1.5 x Ir
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	1.5...10 x Ir
Short-Time Protection Delay Adjustment Type Tsd	Fixed
[Tsd] Short-Time Protection Delay Adjustment Range	0.02 s
Instantaneous Protection Pick-Up Adjustment Type Ii	Fixed
[Ii] Instantaneous Protection Pick-Up Adjustment Range	750 A
Earth-Leakage Protection	Integrated
Earth-Leakage Protection Sensitity Adjustment Type Iδn	Adjustable
[Iδn] Earth-Leakage Protection Sensitivity Adjustment Range	0.03…5 A
Earth-Leakage Sensitivity	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
Earth-Leakage Protection Time Delay Adjustement Type Δt	Adjustable
[Δt] Earth-Leakage Protection Time Delay Adjustment Range	0 ms 60 ms 150 ms 500 ms 1000 ms

Neutral Protection Settings	No protection 1 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	15.3 cm
Package 1 Width	13.4 cm
Package 1 Length	19 cm
Package 1 Weight	1.682 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	6.728 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_2 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 >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information