Product datasheet

Specifications

Green Premium™

circuit breaker ComPact NSX100B, 25 kA at 415 VAC, TMD trip unit 80 A, 3 poles 2d

LV429541

Discontinued on: 07 Jan 2021

End-of-service on: 28 Feb 2021

Discontinued

Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100...250
Device Short Name	NSX100B
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	3P
Protected Poles Description	2t
[In] Rated Current	80 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	15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	B 25 kA 415 V AC
Trip Unit Name	TM-D
Trip Unit Technology	Thermal-magnetic
Trip Unit Protection Functions	LI
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	20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 7.5 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Mechanical Durability	50000 cycles
Electrical Durability	10000 cycles at 690 V In 20000 cycles at 690 V In/2 30000 cycles at 440 V In 50000 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 (thermal) I : for short-circuit protection (magnetic)
Trip Unit Rating	80 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable
[Ir] Long-Time Protection Pick-Up Adjustment Range	0.7...1 x In
Long-Time Protection Delay Adjustment Type Tr	Fixed
[Tr] Long-Time Protection Delay Adjustment Range	120…400 s at 1.5 x In 15 s at 6 x Ir
Short-Time Protection Pick-Up Adjustment Type Isd	Fixed
[Isd] Short-Time Protection Pick-Up Adjustment Range	640 A
Short-Time Protection Delay Adjustment Type Tsd	Fixed
Earth-Leakage Protection	Without
Number Of Slots For Electrical Auxiliaries	5 slot(s)
Width (W)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net Weight	2.05 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	-25…70 °C
Ambient Air Temperature For Storage	-50…85 °C
Relative Humidity	0…95 %
Operating Altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	16.71 cm
Package 1 Length	19 cm
Package 1 Weight	1.8 kg

Contractual warranty

Warranty	18 months

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 >

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