

# Product datasheet

Specifications



## Circuit breaker, ComPact NSX80 DC PV, 80A, 1000 V, TM-D trip unit, 4 poles

LV438081

! Discontinued

! Discontinued on: 13 Nov 2022

! End-of-service on: 26 Oct 2023

### Main

Range	ComPact
Product Name	ComPact NSX DC
Range Of Product	ComPact NSX100...250 DC PV
Device Short Name	NSX80 DC PV
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	4P
Protected Poles Description	4t
Neutral Position	Left
[In] Rated Current	80 A at 40 °C
[Ue] Rated Operational Voltage	1000 V DC
Network Type	DC
Suitability For Isolation	Yes conforming to EN/IEC 60947-2
Utilisation Category	Category A
[Icu] Rated Ultimate Short-Circuit Breaking Capacity	10 kA Icu at 1000 V DC conforming to IEC 60947-2
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	1000 V DC conforming to IEC 60947-2
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947-2
Mechanical Durability	10000 cycles
Electrical Durability	1500 cycles at 1000 V In
Mounting Support	Backplate
Upside Connection	Front
Downside Connection	Front

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

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
Earth-Leakage Protection	Without
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	186 mm
Net Weight	2.4 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	13.5 cm
Package 1 Width	14.0 cm
Package 1 Length	19.0 cm
Package 1 Weight	2.611 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	9
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	24.265 kg

# Contractual warranty

Warranty	18 months
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# 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.

**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

## Well-being performance

✓	Mercury Free	
✓	Rohs Exemption Information	Yes
Eu Rohs Directive	Compliant	<a href="#">EU RoHS Declaration</a>
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>	
Circularity Profile	<a href="#">End of Life Information</a>	