

Product datasheet

Specifications



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

LV438081

⚠ Discontinued on: Aug 27, 2025

⚠ Discontinued

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
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 I_r (thermal protection)	Adjustable
[I_r] long-time protection pick-up adjustment range	0.7...1 x I _n
Long-time protection delay adjustment type t_r	Fixed
Earth-leakage protection	Without
Width (W)	140 mm
Height (H)	161 mm
Depth (D)	186 mm
Product 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



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins