Product data sheet
Characteristics

LV438550
Circuit breaker, ComPact NSX800 TM-DC, 2 poles, 800A, 50kA/600VDC, with bare cable connector



⚠ End of Commercialisation

Commercial status
End of Commercialisation : JUL 07, 2025

Main

Range	ComPact
Product name	ComPact NSX DC
Range of product	ComPact NSX630...1200 DC
Device short name	NSX800 DC
Product or component type	Circuit breaker
Device application	Distribution
Poles description	2P
Protected poles description	2t
[In] rated current	800 A at 40 °C
[Ue] rated operational voltage	600 V DC
Network type	DC
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
Breaking capacity	50 KA Icu at 300 V DC 1P conforming to IEC 60947-2 50 KA Icu at 600 V DC 2P conforming to IEC 60947-2
Breaking capacity code	N 50 kA 600 V DC
Trip unit name	TM-DC
Trip unit technology	Thermal-magnetic
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	600 V DC conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 KV conforming to IEC 60947-2
[Ics] rated service breaking capacity	12.5 KA at 600 V DC conforming to IEC 60947-2
Mechanical durability	5000 Cycles
Electrical durability	1000 Cycles at 600 V In 2000 Cycles at 600 V In/2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	45 Mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	800 A at 40 °C

Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Long time delay adjustment type	Fixed
Short-time pick-up adjustment type Isd	Adjustable
[Isd] short-time pick-up adjustment range	2.5...5 x In
Short-time delay adjustment type	Fixed
Earth-leakage protection	Without
Number of slots	6 slot(s)
Width	185 Mm
Height	350 Mm
Depth	110 Mm
Net weight	9.4 Kg

Environment

Standards	EN/IEC 60947
Product certifications	CCC[RETURN]EAC[RETURN]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	15.800 Cm
Package 1 Width	19.600 Cm
Package 1 Length	36.800 Cm
Package 1 Weight	7.900 Kg

Offer Sustainability

Recyclability potential, in %	59
Total lifecycle Carbon footprint	1 484 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	51.90698154778298
Carbon footprint of the manufacturing phase [A1 to A3]	52 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.0330484714954558
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.6749049848526576
Carbon footprint of the installation phase [A5]	0.7 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1414.7224683158756
Carbon footprint of the use phase [B2, B3, B4, B6]	1 415 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	16.157904158633983
Carbon footprint of the end-of-life phase [C1 to C4]	16 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1484
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	E01033b9-a29d-4247-893c-b0642e7209e8

EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
End of life manual availability	No need of specific recycling operations
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. - Block