

Product datasheet

Specifications



Circuit breaker, ComPact NSX630 TM-DC, 2 poles, 630A, 50kA/ 600VDC, with bare cable connector

LV438549

Main

Range	ComPact
Product name	ComPact NSX DC
Range of product	ComPact NSX630...1200 DC
Device short name	NSX630 DC
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	2P
Protected poles description	2t
[In] rated current	630 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
[Icu] rated ultimate short-circuit 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
Performance level	N 50 kA 600 V DC
Trip unit name	TM-DC
Trip unit technology	Thermal-magnetic
Control type	Toggle
Circuit breaker 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 short-circuit 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

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

Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	630 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
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick-up adjustment range	2.5...5 x In
Short-time protection delay adjustment type tsd	Fixed
Earth-leakage protection	Without
Number of slots for electrical auxiliaries	6 slot(s)
Width (W)	185 mm
Height (H)	350 mm
Depth (D)	110 mm
Net weight	9.4 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	15.8 cm
Package 1 Width	19.6 cm
Package 1 Length	36.8 cm
Package 1 Weight	7.9 kg

Contractual warranty

Warranty (in months)	18
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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	
Total lifecycle Carbon footprint	1 017 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	52 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.7 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	947 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	16 kg CO2 eq.

Use Better

 Materials and Substances	
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
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

Use Longer

 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Recyclability potential, in %	59
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 and never end up in rubbish bins