

Product datasheet

Specifications



circuit breaker Compact NSX250 DC PV, 250 A, 1000 V, TM-D trip unit, 4 poles

LV438451

! To be discontinued on: 30 June 2022

! To be discontinued

Main

Range	ComPact
Product name	ComPact NSX DC
Range of product	ComPact NSX100...250 DC PV
Device short name	NSX250 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	250 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-DC
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
[Ics] rated service short-circuit breaking capacity	5 kA at 1000 V DC conforming to IEC 60947-2
Mechanical durability	5000 cycles

Electrical durability	1000 cycles at 1000 V In
Mounting support	Backplate
Upside connection	Front
Downside connection	Front Rear
Connection pitch	45 mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	250 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
Earth-leakage protection	Without
Width (W)	185 mm
Height (H)	255 mm
Depth (D)	110 mm
Net weight	7.9 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 Weight	10.0 kg
Package 1 Height	30 cm
Package 1 width	30 cm
Package 1 Length	40 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	1
Package 2 Weight	10.001 kg

Package 2 Height	14.2 cm
Package 2 width	14.4 cm
Package 2 Length	17.7 cm
Unit Type of Package 3	S04
Number of Units in Package 3	11
Package 3 Weight	110.766 kg
Package 3 Height	30 cm
Package 3 width	40 cm
Package 3 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

LV438451 is replaced by:

1x



Circuit breaker, ComPacT NSX400F, 10 kA, DC PV, 4P4D, 250 A, TMD
C40F4TM250D1