



Circuit breaker, ComPact NSX100F AC/DC, 18kA/415VAC, TMD trip unit 20A, 2 poles 2d

LV438593

To be discontinued on: 31 December 2022

! To be discontinued

Important message: This product has been switched to new ComPacT range and is no longer commercialized. It will continue to be available until Q4 2022 only limited to specific projects.

Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100250 ComPact NSX100250 DC
Device short name	NSX100F
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	2P
Protected poles description	2t
[In] rated current	20 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz 500 V DC
Network type	DC AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	5 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 250 V DC 1P conforming to IEC 60947-2 36 kA Icu at 125 V DC 1P conforming to IEC 60947-2 36 kA Icu at 500 V DC 2P conforming to IEC 60947-2 10 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 18 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	F 18 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[Ui] rated insulation voltage 750 V AC 50/60 Hz 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 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 250 V DC conforming to IEC 60947-2 36 kA at 125 V DC conforming to IEC 60947-2 36 kA at 500 V DC conforming to IEC 60947-2 10 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	10000 cycles at 277 V In 20000 cycles at 277 V In/2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	35 mm
Protection type	for overload protection (thermal) for short-circuit protection (magnetic)
Trip unit rating	20 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Fixed
[Ir] long-time protection pick-up adjustment range	1 ln
[Im] magnetic protection pick- up range	190 A
Earth-leakage protection	Without
Width (W)	70 mm
Height (H)	161 mm
Depth (D)	86 mm
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	-2570 °C
Ambient air temperature for storage	-5085 °C
Relative humidity	095 %
Operating altitude	02000 m without derating 2000 m5000 m with derating
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Weight	1.281 kg
Package 1 Height	8.0 cm
Package 1 width	13.0 cm
Package 1 Length	17.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Weight	15.859 kg
Package 2 Height	30.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 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
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty 18 months

Recommended replacement(s)

LV438593 is replaced by:

1x



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