

# Product datasheet

Specifications



circuit breaker Compact NSX600F DC, 36 kA at 750 VDC, TM-DC trip unit, 600 A rating, 4 poles

LV438264

ⓘ Discontinued on: 31 December 2022

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## Main

Range	ComPact
Product name	ComPact NSX DC
Range of product	ComPact NSX400...630 DC
Device short name	NSX630F DC
Product or component type	Circuit breaker
Device application	Distribution
Number of poles	4P
Protected poles description	4t
Neutral position	Left
[In] rated current	600 A at 40 °C
[Ue] rated operational voltage	750 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	36 kA Icu at 250 V DC 1P conforming to IEC 60947-2 36 kA Icu at 500 V DC 2P conforming to IEC 60947-2 36 kA Icu at 750 V DC 4P conforming to IEC 60947-2
Performance level	F 36 kA 750 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	750 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	36 kA at 750 V DC conforming to IEC 60947-2
Mechanical durability	5000 cycles

Electrical durability	1000 cycles at 750 V In 2000 cycles at 750 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	600 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
Number of slots for electrical auxiliaries	6 slot(s)
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 Height	14.6 cm
Package 1 Width	21.0 cm
Package 1 Length	29.0 cm
Package 1 Weight	7.2 kg
Unit Type of Package 2	S04
Number of Units in Package 2	3

Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	22.46 kg

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Recommended replacement(s)