Product data sheet
Characteristics

LV429551
Circuit breaker, ComPact NSX100B, 25kA/415VAC, TMD trip unit 80A, 3 poles 3d

Main

Range	ComPact
Product name	ComPact NSX
Range of Product	ComPact NSX100...250
Device short name	NSX100B
Product or Component Type	Circuit breaker
Device Application	Distribution
Number of poles	3P
Protected poles description	3t
Line Rated Current	80 A 104 °F (40 °C)
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network Frequency	50/60 Hz
Suitability for isolation	Yes EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	15 KA Icu 500 V AC 50/60 Hz IEC 60947-2 20 KA Icu 440 V AC 50/60 Hz IEC 60947-2 25 KA Icu 380/415 V AC 50/60 Hz IEC 60947-2 40 kA Icu 220/240 V AC 50/60 Hz IEC 60947-2
Performance level	B 25 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control Type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ics] rated service short-circuit breaking capacity	20 KA 440 V AC 50/60 Hz IEC 60947-2 25 KA 380/415 V AC 50/60 Hz IEC 60947-2 40 KA 220/240 V AC 50/60 Hz IEC 60947-2 7.5 kA 500 V AC 50/60 Hz IEC 60947-2
Mechanical durability	50000 cycles
Electrical durability	10000 Cycles 690 V In 20000 Cycles 690 V In/2 30000 Cycles 440 V In 50000 cycles 440 V In/2
Mounting Support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	1.38 in (35 mm)
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	80 A 104 °F (40 °C)
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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[Ir] long-time protection pick-up adjustment range	0.7...1 x In
Long-time protection delay adjustment type tr	Fixed
[tr] long-time protection delay adjustment range	120…400 S 1.5 x In 15 s 6 x Ir
Short-time protection pick-up adjustment type Isd	Fixed
[Isd] Short-time protection pick-up adjustment range	640 A
Short-time protection delay adjustment type tsd	Fixed
Earth-leakage protection	Without
Number of slots for electrical auxiliaries	5
Width (W)	4.13 in (105 mm)
Height (H)	6.34 in (161 mm)
Depth (D)	3.39 in (86 mm)
Net Weight	4.52 lb(US) (2.05 kg)

Environment

Standards	EN/IEC 60947
Product Certifications	CCC EAC Marine
Overvoltage category	Class II
Electrical shock protection class	Class II
Pollution degree	3 IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 IEC 62262
Ambient Air Temperature for Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-58…185 °F (-50…85 °C)
Relative humidity	0…95 %
Operating altitude	0...6561.68 ft (0...2000 m) without derating 2000 m...5000 m with derating

Ordering and shipping details

Category	01101-NF..E COMPACT NS IEC CIRCUIT BREAKERS, SWITCHES & MCP'S
Discount Schedule	DE2
GTIN	3606480008443
Returnability	No
Country of origin	PL

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.94 in (10.0 cm)
Package 1 Width	5.39 in (13.7 cm)
Package 1 Length	5.43 in (13.8 cm)
Package 1 Weight	3.88 lb(US) (1.76 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	48.25 lb(US) (21.886 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months