Product data sheet
Characteristics

LV431832
Circuit breaker, ComPact NSX250N, 50kA/415VAC, TMD trip unit 160A, 3 poles 3d

Important message: This product has been switched to new ComPacT range and is no longer commercialized.



Commercial status
End of Commercialisation : NOV 17, 2023

⚠ End of Commercialisation

Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250
Device short name	NSX250N
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3t
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
Breaking capacity	85 KA at 240 V AC 50/60 Hz conforming to UL 508 10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 480 V AC 50/60 Hz conforming to UL 508 36 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 90 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 15 KA at 600 V AC 50/60 Hz conforming to UL 508
Breaking capacity code	N 50 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 90 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 Cycles
Electrical durability	5000 Cycles at 690 V In 10000 Cycles at 690 V In/2 10000 Cycles at 440 V In 20000 Cycles at 440 V In/2
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	35 Mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	160 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Long time delay adjustment type	Fixed
[tr] long-time delay adjustment range	120…400 S at 1.5 x In 15 S at 6 x Ir
Short-time pick-up adjustment type Isd	Fixed
[Isd] short-time pick-up adjustment range	1250 A
Short-time delay adjustment type	Fixed
Earth-leakage protection	Without
Number of slots	5 slot(s)
Width	105 Mm
Height	161 Mm
Depth	86 Mm
Net weight	2.4 Kg

Environment

Standards	EN/IEC 60947
Product certifications	CCC[RETURN]EAC[RETURN]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	11.000 Cm
Package 1 Width	14.000 Cm
Package 1 Length	19.000 Cm
Package 1 Weight	1.922 Kg
Unit Type of Package 2	S03

Number of Units in Package 2	4
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	8.108 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	32
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	76.864 Kg

Offer Sustainability

Total lifecycle Carbon footprint	483 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	10.0281521951
Carbon footprint of the manufacturing phase [A1 to A3]	10 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4180490634
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2020537659
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	472.2501028571
Carbon footprint of the use phase [B2, B3, B4, B6]	472 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.3107358341
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	483
SCIP Number	3874e08b-fcb8-4aa9-87c4-d36abebf2833
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the S
End of life manual availability	End Of Life Information
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. - Block

LV431832 may be replaced by any of the following products:



C25N3TM160

Circuit breaker, ComPacT NSX250N, 50kA/415VAC, 3 poles, TMD trip unit 160A

Qty 1

Substitution date: |