Product data sheet
Characteristics

LV431161
Circuit breaker, ComPact NSX250F, 36kA/415VAC, MicroLogic 2.2M trip unit 150A, 3 poles 3d

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



⚠ End of Commercialisation

Commercial status
End of Commercialisation : MAR 11, 2025

Main

Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100...250
Device short name	NSX250F
Product or component type	Circuit breaker
Device application	Motor
Poles description	3P
Protected poles description	3t
[In] rated current	150 A at 65 °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 22 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 8 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 480 V AC 50/60 Hz conforming to UL 508 30 KA Icu at 500 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	F 36 kA 415 V AC
Trip unit name	MicroLogic 2.2 M
Trip unit technology	Electronic
Trip unit protection functions	LSoI
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	35 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 22 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 30 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 8 KA at 660/690 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 (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection
Trip unit rating	150 A at 65 °C
Motor tripping class	20 5 10
Complementary motor protection	Phase unbalance
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	70...150 A
Long time delay adjustment type	Fixed
[tr] long-time delay adjustment range	10 S at 7.2 x Ir for trip class 10 120 S at 1.5 x Ir for trip class 5 20 S at 7.2 x Ir for trip class 20 240 S at 1.5 x Ir for trip class 10 26 S at 6 x Ir for trip class 20 480 S at 1.5 x Ir for trip class 20 5 S at 7.2 x Ir for trip class 5 13.5 S at 6 x Ir for trip class 10 6.5 S at 6 x Ir for trip class 5
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable 9 settings
[Isd] short-time pick-up adjustment range	5...13 x Ir
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	2250 A
Earth-leakage protection	Without
Zone selective interlocking ZSI	Without
Number of slots	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 95 % Ith (red) for temperature over set point
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	7.400 Cm
Package 1 Width	9.900 Cm
Package 1 Length	59.500 Cm
Package 1 Weight	1.972 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	16.196 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	64
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	141.568 Kg

Offer Sustainability

Recyclability potential, in %	54
Total lifecycle Carbon footprint	121 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15.1331412158927
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.568453307802776
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.163810990904739
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	101.787954545454
Carbon footprint of the use phase [B2, B3, B4, B6]	102 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	3.31945466730493
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	121
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	811c5f45-220d-4e22-b512-f9d771b72680
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
Updatability	No
End of life manual availability	End Of Life Information

Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. - Block

LV431161 may be replaced by any of the following products:



C25F3

Circuit breaker basic frame, ComPacT NSX250F, 36kA/415VAC, 3 poles, 250A frame rating, without trip unit

Qty 1

Substitution date: |



C1632M150

Trip unit MicroLogic 2.2M, ComPacT NSX160/250, 3 poles, electronic basic protections, motor protection, 150A rating

Qty 1

Substitution date: |