

circuit breaker Compact NSX100H, 70 kA at 415 VAC, Micrologic 2.2 M trip unit 50 A, 3 poles 3d

LV429837

Discontinued on: 03 July 2023

(!) Discontinued

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Range	ComPact
Product name	ComPact NSX
Range of product	ComPact NSX100250
Device short name	NSX100H
Product or component type	Circuit breaker
Device application	Motor
Number of poles	3P
Protected poles description	3t
[In] rated current	50 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
[Icu] rated ultimate short-circuit breaking capacity	10 kA at 600 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508 65 kA at 480 V AC 50/60 Hz conforming to UL 508 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 220/240 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 Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Performance level	H 70 kA 415 V AC
Trip unit name	MicroLogic 2.2 M
Trip unit technology	Electronic
Trip unit protection functions	LSol
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
[lcs] rated service short-circuit breaking capacity	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	50000 cycles
Electrical durability	10000 cycles at 690 V In 20000 cycles at 690 V In/2 30000 cycles at 440 V In 50000 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	50 A at 65 °C
Motor tripping class	20 10 5
Complementary motor protection	Phase unbalance
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable 9 settings
[Ir] long-time protection pick-up adjustment range	2550 A
Long-time protection delay adjustment type tr	Fixed
[Tr] long-time protection 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 protection pick-up adjustment type Isd	Adjustable 9 settings
[Isd] Short-time protection pick- up adjustment range	513 x lr
Short-time protection delay adjustment type tsd	Fixed
Instantaneous protection pick- up adjustment type li	Fixed
[li] instantaneous protection pick-up adjustment range	750 A
Earth-leakage protection	Without
Zone selective interlocking ZSI	Without
Number of slots for electrical auxiliaries	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 95 % Ith (red) for temperature over set point
Width (W)	105 mm

Height (H)	161 mm
Depth (D)	86 mm
Net weight	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 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 Height	11.5 cm
Package 1 Width	14.0 cm
Package 1 Length	19.5 cm
Package 1 Weight	2.05 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6
Number of Units in Package 2 Package 2 Height	6 30.0 cm
Package 2 Height	30.0 cm
Package 2 Height Package 2 Width	30.0 cm 30.0 cm
Package 2 Height Package 2 Width Package 2 Length	30.0 cm 30.0 cm 40.0 cm
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight	30.0 cm 30.0 cm 40.0 cm
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight Offer Sustainability	30.0 cm 40.0 cm 12.7 kg
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight Offer Sustainability Sustainable offer status	30.0 cm 40.0 cm 12.7 kg Green Premium product
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight Offer Sustainability Sustainable offer status REACh Regulation	30.0 cm 40.0 cm 12.7 kg Green Premium product REACh Declaration Compliant
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive	30.0 cm 40.0 cm 12.7 kg Green Premium product REACh Declaration Compliant EU RoHS Declaration
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive Mercury free	30.0 cm 40.0 cm 12.7 kg Green Premium product REACh Declaration Compliant EU RoHS Declaration Yes China RoHS declaration
Package 2 Height Package 2 Width Package 2 Length Package 2 Weight Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive Mercury free China RoHS Regulation	30.0 cm 40.0 cm 12.7 kg Green Premium product REACh Declaration Compliant EU RoHS Declaration Yes China RoHS declaration Product out of China RoHS scope. Substance declaration for your 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

Recommended replacement(s)

LV429837 is replaced by:

1x



Circuit breaker, ComPacT NSX100H, 70kA/415VAC, 3 poles, MicroLogic 2.2M trip unit 50A

C10H32M050