

Product datasheet

Specifications



circuit breaker ComPact
NSX100HB1. 75 kA at 690 VAC.
MicroLogic 6.2 E-M trip unit 25 A.
3 poles 3d

LV433315

⚠ Discontinued on: 30 Jun 2023

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Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100...250
Device Short Name	NSX100HB1
Product Or Component Type	Circuit breaker
Device Application	Motor
Number Of Poles	3P
Protected Poles Description	3t
[In] Rated Current	25 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	85 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	HB1 75 kA 690 V AC
Trip Unit Name	MicroLogic 6.2 E-M
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSIG
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	85 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	50000 cycles

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: 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

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) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection
Trip Unit Rating	25 A at 65 °C
Motor Tripping Class	5 10 30 20
Complementary Motor Protection	Phase unbalance Stalled rotor Protracted starting time Underload
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable 9 settings
[Ir] Long-Time Protection Pick-Up Adjustment Range	12...25 A
Long-Time Protection Delay Adjustment Type Tr	Adjustable
[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 30 s at 7.2 x Ir for trip class 30 38 s at 6 x Ir for trip class 30 720 s at 1.5 x Ir for trip class 30
Thermal Memory	20 minutes before and after tripping
Short-Time Protection Pick-Up Adjustment Type Isd	Adjustable
[Isd] Short-Time Protection Pick-Up Adjustment Range	5...13 x Ir
Short-Time Protection Delay Adjustment Type Tsd	Fixed
Instantaneous Protection Pick-Up Adjustment Type Ii	Fixed
[Ii] Instantaneous Protection Pick-Up Adjustment Range	425 A
Ground-Fault Protection Pick-Up Adjustment Type Ig	Adjustable 9 settings
[Ig] Ground-Fault Protection Pick-Up Adjustment Range	0.6...1 x In for In = 25 A 0.3...1 x In for In = 50 A 0.2...1 x In for In > 50 A Ig enable on/off
Ground-Fault Protection Time Delay Adjustment Type Tg	Adjustable
[Tg] Ground-Fault Protection Time Delay Adjustment Range	0...0.4 s
Earth-Leakage Protection	Without
Zone Selective Interlocking Zsi	With
Number Of Slots For Electrical Auxiliaries	5 slot(s)

Local Signalling	Flashing LED (green) for ready to operate LED 95 % lth (red) for temperature over set point
Display Type	LCD display
Type Of Measurement	Energy meter
Communication Of Data	Demand current and power Instantaneous and demand values Time-stamped histories and event tables Maximeters/minimeters Maintenance indicators Energy metering Power quality Phase sequence Protection and alarm settings Thermal image function
Width (W)	105 mm
Height (H)	161 mm
Depth (D)	86 mm
Net Weight	2.05 kg

Environment

Standards	EN/IEC 60947
Product Certifications	EAC Marine CCC
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	-40...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	10.8 cm
Package 1 Width	13.5 cm
Package 1 Length	19.2 cm
Package 1 Weight	2.019 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

- [Learn more about Green Premium >](#)
- [Guide to assess a product’s sustainability >](#)



RoHS/REACH

Well-being performance

✓ Mercury Free	
✓ Rohs Exemption Information	Yes

Certifications & Standards

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	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