

# Product data sheet

Specifications



## Circuit breaker, ComPact NSX100HB2, 100kA/690VAC, MicroLogic 6.2E-M trip unit 80A, 3 poles 3d

LV433347

❗ Discontinued

❗ Discontinued on: Jun 30, 2023

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

### Main

Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100...250
Device Short Name	NSX100HB2
Product Or Component Type	Circuit breaker
Device Application	Motor
Number Of Poles	3P
Protected Poles Description	3t
[In] Rated Current	80 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	100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	HB2 100 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	100 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2

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

<b>Mechanical Durability</b>	50000 cycles
<b>Electrical Durability</b>	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
<b>Mounting Support</b>	Backplate
<b>Upside Connection</b>	Front
<b>Downside Connection</b>	Front
<b>Connection Pitch</b>	35 mm
<b>Protection Type</b>	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection
<b>Trip Unit Rating</b>	80 A at 65 °C
<b>Motor Tripping Class</b>	30 10 5 20
<b>Complementary Motor Protection</b>	Protracted starting time Underload Stalled rotor Phase unbalance
<b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b>	Adjustable 9 settings
<b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>	35...80 A
<b>Long-Time Protection Delay Adjustment Type Tr</b>	Adjustable
<b>[Tr] Long-Time Protection Delay Adjustment Range</b>	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
<b>Thermal Memory</b>	20 minutes before and after tripping
<b>Short-Time Protection Pick-Up Adjustment Type Isd</b>	Adjustable
<b>[Isd] Short-Time Protection Pick-Up Adjustment Range</b>	5...13 x Ir
<b>Short-Time Protection Delay Adjustment Type Tsd</b>	Fixed
<b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>	Fixed
<b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>	1200 A
<b>Ground-Fault Protection Pick-Up Adjustment Type Ig</b>	Adjustable 9 settings
<b>[Ig] Ground-Fault Protection Pick-Up Adjustment Range</b>	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
<b>Ground-Fault Protection Time Delay Adjustment Type Tg</b>	Adjustable
<b>[Tg] Ground-Fault Protection Time Delay Adjustment Range</b>	0...0.4 s
<b>Earth-Leakage Protection</b>	Without
<b>Zone Selective Interlocking Zsi</b>	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	Maximeters/minimeters Phase sequence Time-stamped histories and event tables Protection and alarm settings Power quality Instantaneous and demand values Thermal image function Maintenance indicators Demand current and power Energy metering
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	13.5 cm
Package 1 Width	10.8 cm
Package 1 Length	19.2 cm
Package 1 Weight	1.89 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-CO<sub>2</sub> 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 <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a> 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
California Proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>