

Product datasheet

Specifications



Circuit breaker, ComPact NSX400HB2, 100kA/690VAC, MicroLogic 2.3 trip unit 250A, 4 poles 4d

LV433641

! Discontinued

! Discontinued on: Sep 4, 2023

! To be end-of-service on: Sep 3, 2026

Main

| | |
|--|---|
| Range | ComPact |
| Product Name | ComPact NSX |
| Range Of Product | ComPact NSX400...630 |
| Device Short Name | NSX400HB2 |
| Product Or Component Type | Circuit breaker |
| Device Application | Distribution |
| Number Of Poles | 4P |
| Protected Poles Description | 3t 3t + N/2 4t |
| Neutral Position | Left |
| [In] Rated Current | 250 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 |
| [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 2.3 |
| 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 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

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| [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 |
| Mechanical Durability | 15000 cycles |
| Electrical Durability | 3000 cycles at 690 V In 6000 cycles at 690 V In/2 6000 cycles at 440 V In 12000 cycles at 440 V In/2 |
| Mounting Support | Backplate |
| Upside Connection | Front |
| Downside Connection | Front |
| Connection Pitch | 45 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 | 250 A at 40 °C |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable 9 settings |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 70...250 A |
| Long-Time Protection Delay Adjustment Type Tr | Fixed |
| [Tr] Long-Time Protection Delay Adjustment Range | 11 s at 7.2 x Ir 16 s at 6 x Ir 400 s at 1.5 x Ir |
| 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 | 1.5...10 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 | 3000 A |
| Earth-Leakage Protection | Without |
| Neutral Protection Settings | 0.5 x Ir (3t + N/2) 1 x Ir (4t) No protection (3t) |
| Zone Selective Interlocking Zsi | Without |
| Number Of Slots For Electrical Auxiliaries | 6 slot(s) |
| Local Signalling | Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload |
| Width (W) | 185 mm |
| Height (H) | 255 mm |
| Depth (D) | 110 mm |
| Net Weight | 7.9 kg |

Environment

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|-------------------------------|----------------------|
| Standards | EN/IEC 60947 |
| Product Certifications | CCC Marine EAC |

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|---------------------------------------|--|
| 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

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|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 15.2 cm |
| Package 1 Width | 20.3 cm |
| Package 1 Length | 29.2 cm |
| Package 1 Weight | 7.92 kg |

Contractual warranty

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|----------|-----------|
| 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 >](#)

Well-being performance

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|---|----------------------------|---|
|  | Mercury Free | |
| <hr/> | | |
|  | Rohs Exemption Information | Yes |
| <hr/> | | |
| Eu Rohs Directive | | Compliant |
| | | EU RoHS Declaration |
| <hr/> | | |
| China Rohs Regulation | | China RoHS declaration |
| | | Product out of China RoHS scope. Substance declaration for your information |
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