# Product datasheet

Specifications



## circuit breaker ComPact NSX160B, 25 kA at 415 VAC, TMD trip unit 160 A, 3 poles 3d

LV430310

Discontinued on: Nov 10, 2024

Discontinued

## Main

| | |
|---|---|
| **Range** | ComPact |
| **Product name** | ComPact NSX |
| **Range of product** | ComPact NSX100...250 |
| **Device short name** | NSX160B |
| **Product or component type** | Circuit breaker |
| **Device application** | Distribution |
| **Number of poles** | 3P |
| **Protected poles description** | 3t |
| **[In] rated current** | 160 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** | 15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Performance level** | B 25 kA 415 V AC |
| **Trip unit name** | TM-D |
| **Trip unit technology** | Thermal-magnetic |
| **Trip unit protection functions** | LI |
| **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** | 20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Mechanical durability** | 40000 cycles |

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

| | |
|---|---|
| **Electrical durability** | 7500 cycles at 690 V In<br>15000 cycles at 690 V In/2<br>20000 cycles at 440 V In<br>40000 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 (thermal)<br>I : for short-circuit protection (magnetic) |
| **Trip unit rating** | 160 A at 40 °C |
| **Long-time pick-up adjustment type Ir (thermal protection)** | Adjustable |
| **[Ir] long-time protection pick-up adjustment range** | 0.7...1 x In |
| **Long-time protection delay adjustment type tr** | Fixed |
| **[tr] long-time protection delay adjustment range** | 120…400 s at 1.5 x In<br>15 s at 6 x Ir |
| **Short-time protection pick-up adjustment type Isd** | Fixed |
| **[Isd] Short-time protection pick-up adjustment range** | 1250 A |
| **Short-time protection delay adjustment type tsd** | Fixed |
| **Earth-leakage protection** | Without |
| **Number of slots for electrical auxiliaries** | 5 slot(s) |
| **Width (W)** | 105 mm |
| **Height (H)** | 161 mm |
| **Depth (D)** | 86 mm |
| **Net weight** | 2.2 kg |

# Environment

| | |
|---|---|
| **Standards** | EN/IEC 60947 |
| **Product certifications** | CCC<br>EAC<br>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<br>2000 m...5000 m with derating |

# Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |

| | |
|---|---|
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 11.2 cm |
| **Package 1 Width** | 14.0 cm |
| **Package 1 Length** | 19.0 cm |
| **Package 1 Weight** | 1.827 kg |
| **Unit Type of Package 2** | S04 |
| **Number of Units in Package 2** | 12 |
| **Package 2 Height** | 30.0 cm |
| **Package 2 Width** | 40.0 cm |
| **Package 2 Length** | 60.0 cm |
| **Package 2 Weight** | 22.69 kg |

## Contractual warranty

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|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | 570 |

## Use Better

### Materials and Substances

| | |
|---|---|
| EU RoHS Directive | Compliant with Exemptions |
| SCIP Number | 3874e08b-fcb8-4aa9-87c4-d36abebf2833 |

## Use Again

### Repack and remanufacture

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|---|---|
| End of life manual availability | End of Life Information |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |