

# Product datasheet

Specifications



circuit breaker Compact NSX160F,  
36 kA at 415 VAC, TMD trip unit  
160 A, 4 poles 3d

LV430640

⚠ Discontinued on: 26-Mar-2024

⚠ Discontinued

## Main

|  |  |
|--|--|
| Range  | ComPact  |
| Product Name   | ComPact NSX  |
| Range Of Product                                     | ComPact NSX100...250   |
| Device Short Name                                    | NSX160F  |
| Product Or Component Type                            | Circuit breaker  |
| Device Application                                   | Distribution   |
| Number Of Poles                                      | 4P   |
| Protected Poles Description                          | 3t   |
| Neutral Position                                     | Left   |
| [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 | 10 kA at 600 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 480 V AC 50/60 Hz conforming to UL 508<br>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level                                    | F 36 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              |

|  |   |
|--|---|
| <b>[Ics] Rated Service Short-Circuit Breaking Capacity</b>       | 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical Durability</b>                                     | 40000 cycles  |
| <b>Electrical Durability</b>                                     | 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   |
| <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 (thermal)<br>I : for short-circuit protection (magnetic)  |
| <b>Trip Unit Rating</b>  | 160 A at 40 °C  |
| <b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b> | Adjustable  |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>        | 0.7...1 x In  |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>             | Fixed   |
| <b>[Tr] Long-Time Protection Delay Adjustment Range</b>          | 120...400 s at 1.5 x In<br>15 s at 6 x Ir   |
| <b>Short-Time Protection Pick-Up Adjustment Type Isd</b>         | Fixed   |
| <b>[Isd] Short-Time Protection Pick-Up Adjustment Range</b>      | 1250 A  |
| <b>Short-Time Protection Delay Adjustment Type Tsd</b>           | Fixed   |
| <b>Earth-Leakage Protection</b>                                  | Without   |
| <b>Neutral Protection Settings</b>                               | No protection (3t)  |
| <b>Number Of Slots For Electrical Auxiliaries</b>                | 5 slot(s)   |
| <b>Width (W)</b>   | 140 mm  |
| <b>Height (H)</b>  | 161 mm  |
| <b>Depth (D)</b>   | 86 mm   |
| <b>Net Weight</b>  | 2.6 kg  |

## Environment

|  |                              |
|--|------------------------------|
| <b>Standards</b>                             | EN/IEC 60947                 |
| <b>Product Certifications</b>                | CCC<br>EAC<br>Marine         |
| <b>Overvoltage Category</b>                  | Class II                     |
| <b>Electrical Shock Protection Class</b>     | Class II                     |
| <b>Pollution Degree</b>                      | 3 conforming to IEC 60664-1  |
| <b>Ip Degree Of Protection</b>               | IP40 conforming to IEC 60529 |
| <b>Ik Degree Of Protection</b>               | IK07 conforming to IEC 62262 |
| <b>Ambient Air Temperature For Operation</b> | -25...70 °C                  |

|  |  |
|--|--|
| <b>Ambient Air Temperature For Storage</b> | -50...85 °C  |
| <b>Relative Humidity</b>                   | 0...95 %   |
| <b>Operating Altitude</b>                  | 0...2000 m without derating<br>2000 m...5000 m with derating |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type Of Package 1</b>       | PCE       |
| <b>Number Of Units In Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 14.4 cm   |
| <b>Package 1 Width</b>              | 15.2 cm   |
| <b>Package 1 Length</b>             | 19.2 cm   |
| <b>Package 1 Weight</b>             | 2.371 kg  |
| <b>Unit Type Of Package 2</b>       | S04       |
| <b>Number Of Units In Package 2</b> | 9         |
| <b>Package 2 Height</b>             | 30.0 cm   |
| <b>Package 2 Width</b>              | 40.0 cm   |
| <b>Package 2 Length</b>             | 60.0 cm   |
| <b>Package 2 Weight</b>             | 22.105 kg |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## 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.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)