# Product datasheet

Specifications

Green Premium™

## Circuit breaker, ComPact NSX100S AC/DC, 70kA/415VAC, TMD trip unit 40A, 2 poles 2d

LV438616

Discontinued on: Jun 30, 2023 AD

Discontinued

## Main

| | |
|---|---|
| **Range** | ComPact |
| **Product Name** | ComPact NSX |
| **Range Of Product** | ComPact NSX100...250 DC<br>ComPact NSX100...250 |
| **Device Short Name** | NSX100S |
| **Product Or Component Type** | Circuit breaker |
| **Device Application** | Distribution |
| **Number Of Poles** | 2P |
| **Protected Poles Description** | 2t |
| **[In] Rated Current** | 40 A at 40 °C |
| **[Ue] Rated Operational Voltage** | 690 V AC 50/60 Hz<br>500 V DC |
| **Network Type** | DC<br>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 Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 250 V DC 1P conforming to IEC 60947-2<br>100 kA Icu at 125 V DC 1P conforming to IEC 60947-2<br>100 kA Icu at 500 V DC 2P conforming to IEC 60947-2 |
| **Performance Level** | S 70 kA 415 V AC |
| **Trip Unit Name** | TM-D |
| **Trip Unit Technology** | Thermal-magnetic |
| **Control Type** | Toggle |
| **Circuit Breaker Mounting Mode** | Fixed |

## Complementary

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|---|---|
| **[Ui] Rated Insulation Voltage** | 750 V AC 50/60 Hz conforming to IEC 60947-2 |
| **[Uimp] Rated Impulse Withstand Voltage** | 8 kV 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

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|---|---|
| **[Ics] Rated Service Short-Circuit Breaking Capacity** | 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 250 V DC conforming to IEC 60947-2<br>100 kA at 125 V DC conforming to IEC 60947-2<br>100 kA at 500 V DC conforming to IEC 60947-2 |
| **Mechanical Durability** | 20000 cycles |
| **Electrical Durability** | 10000 cycles at 277 V In<br>20000 cycles at 277 V In/2 |
| **Mounting Support** | Backplate |
| **Upside Connection** | Front |
| **Downside Connection** | Front |
| **Connection Pitch** | 35 mm |
| **Protection Type** | for overload protection (thermal)<br>for short-circuit protection (magnetic) |
| **Trip Unit Rating** | 40 A at 40 °C |
| **Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)** | Fixed |
| **[Ir] Long-Time Protection Pick-Up Adjustment Range** | 1 In |
| **[Im] Magnetic Protection Pick-Up Range** | 500 A |
| **Earth-Leakage Protection** | Without |
| **Width (W)** | 70 mm |
| **Height (H)** | 161 mm |
| **Depth (D)** | 86 mm |

## Environment

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|---|---|
| **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

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 8.0 cm |

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|---|---|
| **Package 1 Width** | 13.5 cm |
| **Package 1 Length** | 17.5 cm |
| **Package 1 Weight** | 1.286 kg |
| **Unit Type Of Package 2** | S03 |
| **Number Of Units In Package 2** | 12 |
| **Package 2 Height** | 30.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 15.919 kg |

## Contractual warranty

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|---|---|
| **Warranty** | 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-$CO_2$ 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

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|---|---|
| Rohs Exemption Information | Yes |

## Certifications & Standards

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| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |