

# Product datasheet

Specifications



Circuit breaker ComPacT  
NSX160S AC/DC. 70kA at  
415VAC. TMD trip unit 160A. 2  
poles 2d

C16S2TM160

Price: 7,870.15 ZAR

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product Name                                         | ComPacT NSX new generation                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Device Short Name                                    | NSX160S                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Or Component Type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Device Application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poles Description                                    | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protected Poles Description                          | 2D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [In] Rated Current                                   | 160 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ue] Rated Operational Voltage                       | 690 V AC 50/60 Hz<br>500 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Network Type                                         | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz 1P conforming to IEC 60947-2<br>65 kA Icu at 440 V AC 50/60 Hz 1P conforming to IEC 60947-2<br>35 kA Icu at 500/525 V AC 50/60 Hz 2P conforming to IEC 60947-2<br>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 250 V DC 50/60 Hz 1 pole conforming to IEC 60947-2<br>100 kA Icu at 500 V DC 50/60 Hz 2 poles in series conforming to IEC 60947-2 |
| Performance Level                                    | S 70 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          | 750 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947-2              |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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>[Ics] Rated Service Short-Circuit Breaking Capacity</b>       | 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 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 500 V DC conforming to IEC 60947-2<br>35 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical Durability</b>                                     | 20000 cycles                                                                                                                                                                                                                                                                              |
| <b>Electrical Durability</b>                                     | 20000 cycles at 277 V In/2<br>10000 cycles at 277 V In                                                                                                                                                                                                                                    |
| <b>Power Dissipation Per Pole</b>                                | 13.95 W                                                                                                                                                                                                                                                                                   |
| <b>Mounting Support</b>                                          | Backplate                                                                                                                                                                                                                                                                                 |
| <b>Mounting Position</b>                                         | Horizontal and vertical<br>Flat on the back                                                                                                                                                                                                                                               |
| <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> | Fixed                                                                                                                                                                                                                                                                                     |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>        | 1 x In                                                                                                                                                                                                                                                                                    |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>             | Fixed                                                                                                                                                                                                                                                                                     |
| <b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>       | Fixed                                                                                                                                                                                                                                                                                     |
| <b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>    | 1250 A                                                                                                                                                                                                                                                                                    |
| <b>Earth-Leakage Protection</b>                                  | Without                                                                                                                                                                                                                                                                                   |
| <b>Width (W)</b>                                                 | 70 mm                                                                                                                                                                                                                                                                                     |
| <b>Height (H)</b>                                                | 161 mm                                                                                                                                                                                                                                                                                    |
| <b>Depth (D)</b>                                                 | 86 mm                                                                                                                                                                                                                                                                                     |
| <b>Net Weight</b>                                                | 1.2 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

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 8.0 cm    |
| Package 1 Width              | 13.0 cm   |
| Package 1 Length             | 18.0 cm   |
| Package 1 Weight             | 1.281 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             | 15.859 kg |

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 >](#)



Transparency   RoHS/REACH

## Well-being performance

|                                                                                                              |     |
|--------------------------------------------------------------------------------------------------------------|-----|
|  Mercury Free               |     |
|  Rohs Exemption Information | Yes |
|  Pvc Free                   |     |

## Certifications & Standards

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                     |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                             |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                               |