

# Product datasheet

Specifications



Circuit breaker ComPacT  
NSX160H. 70kA at 415VAC.  
MicroLogic 2.2 M trip unit 100A. 3  
poles 3d

C16H32M100

Price: 8,681.50 ZAR

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                            |
| Product Name                                         | ComPacT NSX new generation                                                                                                                                                                                                                                                                                                                                                        |
| Device Short Name                                    | NSX160H                                                                                                                                                                                                                                                                                                                                                                           |
| Product Or Component Type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                   |
| Device Application                                   | Motor protection                                                                                                                                                                                                                                                                                                                                                                  |
| Poles Description                                    | 3P                                                                                                                                                                                                                                                                                                                                                                                |
| Protected Poles Description                          | 3D                                                                                                                                                                                                                                                                                                                                                                                |
| [In] Rated Current                                   | 100 A at 65 °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 220/240 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>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level                                    | H 70 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                  |
| Trip Unit Name                                       | MicroLogic 2.2 M                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                                                                      |
| [Ics] Rated Service Short-Circuit Breaking Capacity | 100 kA at 220/240 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>65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 660/690 V AC 50/60 Hz 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>Mechanical Durability</b>                                     | 40000 cycles                                                                                                                                                                                                                                                                                                                                   |
| <b>Electrical Durability</b>                                     | 40000 cycles at 440 V In/2<br>20000 cycles at 440 V In<br>15000 cycles at 690 V In/2<br>7500 cycles at 690 V In                                                                                                                                                                                                                                |
| <b>Power Dissipation Per Pole</b>                                | 8.1 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 (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection                                                                                                                                                                                     |
| <b>Trip Unit Rating</b>                                          | 100 A at 65 °C                                                                                                                                                                                                                                                                                                                                 |
| <b>Motor Tripping Class</b>                                      | 20<br>10<br>5                                                                                                                                                                                                                                                                                                                                  |
| <b>Complementary Motor Protection</b>                            | Phase unbalance                                                                                                                                                                                                                                                                                                                                |
| <b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b> | Adjustable 9 settings                                                                                                                                                                                                                                                                                                                          |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>        | 50...100 A                                                                                                                                                                                                                                                                                                                                     |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>             | Fixed                                                                                                                                                                                                                                                                                                                                          |
| <b>[Tr] Long-Time Protection Delay Adjustment Range</b>          | 120 s at 1.5 x Ir for trip class 5<br>6.5 s at 6 x Ir for trip class 5<br>5 s at 7.2 x Ir for trip class 5<br>240 s at 1.5 x Ir for trip class 10<br>13.5 s at 6 x Ir for trip class 10<br>10 s at 7.2 x Ir for trip class 10<br>480 s at 1.5 x Ir for trip class 20<br>26 s at 6 x Ir for trip class 20<br>20 s at 7.2 x Ir for trip class 20 |
| <b>Thermal Memory</b>                                            | 20 minutes before and after tripping                                                                                                                                                                                                                                                                                                           |
| <b>Short-Time Protection Pick-Up Adjustment Type Isd</b>         | Adjustable 9 settings                                                                                                                                                                                                                                                                                                                          |
| <b>[Isd] Short-Time Protection Pick-Up Adjustment Range</b>      | 5...13 x Ir                                                                                                                                                                                                                                                                                                                                    |
| <b>Short-Time Protection Delay Adjustment Type Tsd</b>           | Fixed                                                                                                                                                                                                                                                                                                                                          |
| <b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>       | Fixed                                                                                                                                                                                                                                                                                                                                          |
| <b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>    | 1500 A                                                                                                                                                                                                                                                                                                                                         |
| <b>Earth-Leakage Protection</b>                                  | Without                                                                                                                                                                                                                                                                                                                                        |
| <b>Zone Selective Interlocking Zsi</b>                           | Without                                                                                                                                                                                                                                                                                                                                        |
| <b>Number Of Slots For Electrical Auxiliaries</b>                | 5 slot(s)                                                                                                                                                                                                                                                                                                                                      |
| <b>Local Signalling</b>                                          | Flashing LED (green) for ready to operate<br>LED 95 % Ith (red) for temperature over set point                                                                                                                                                                                                                                                 |
| <b>Width (W)</b>                                                 | 105 mm                                                                                                                                                                                                                                                                                                                                         |
| <b>Height (H)</b>                                                | 161 mm                                                                                                                                                                                                                                                                                                                                         |
| <b>Depth (D)</b>                                                 | 86 mm                                                                                                                                                                                                                                                                                                                                          |
| <b>Net Weight</b>                                                | 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             | 12 cm    |
| Package 1 Width              | 18 cm    |
| Package 1 Length             | 19 cm    |
| Package 1 Weight             | 1.943 kg |
| Unit Type Of Package 2       | S03      |
| Number Of Units In Package 2 | 4        |
| Package 2 Height             | 30 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 7.772 kg |
| Unit Type Of Package 3       | P12      |
| Number Of Units In Package 3 | 72       |
| Package 3 Height             | 150 cm   |
| Package 3 Width              | 80 cm    |
| Package 3 Length             | 120 cm   |
| Package 3 Weight             | 139.9 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](#)

## 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>                                                                               |