

# Product datasheet

Specifications



circuit breaker ComPacT NSXm H (70 kA at 415 VAC). 3P 3d. 80 A rating TMD trip unit. EverLink connectors

C11H3TM080L

Price: 5,077.83 ZAR

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                                  |
| Product Name                                         | ComPacT NSXm new generation                                                                                                                                                                                                                                                                                                                                                             |
| Range Of Product                                     | ComPacT NSXm new generation                                                                                                                                                                                                                                                                                                                                                             |
| Device Short Name                                    | NSXm 160H                                                                                                                                                                                                                                                                                                                                                                               |
| Product Or Component Type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                         |
| Device Application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                            |
| Poles Description                                    | 3P                                                                                                                                                                                                                                                                                                                                                                                      |
| Protected Poles Description                          | 3D                                                                                                                                                                                                                                                                                                                                                                                      |
| [In] Rated Current                                   | 80 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 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>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>22 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                                       | 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              |

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>       | 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>30 kA at 500 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>2.5 kA at 660...690 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical Durability</b>                                     | 20000 cycles                                                                                                                                                                                                                                                                                                                                                     |
| <b>Electrical Durability</b>                                     | 20000 cycles at 440 V In/2<br>10000 cycles at 440 V In<br>10000 cycles at 690 V In/2<br>5000 cycles at 690 V In                                                                                                                                                                                                                                                  |
| <b>Power Dissipation Per Pole</b>                                | 6.96 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 Terminals</b>                                      | 1 Everlink lug wire size 2.5...95 mm², rigid or stranded aluminium/copper<br>1 Everlink lug wire size 2.5...70 mm², flexible copper                                                                                                                                                                                                                              |
| <b>Connection Pitch</b>                                          | 35 mm with spreaders<br>27 mm without spreaders                                                                                                                                                                                                                                                                                                                  |
| <b>9 Mm Pitches</b>                                              | 9 module                                                                                                                                                                                                                                                                                                                                                         |
| <b>Trip Unit Rating</b>                                          | 80 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>Instantaneous Protection Pick-Up Adjustment Type Ii</b>       | Fixed                                                                                                                                                                                                                                                                                                                                                            |
| <b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>    | 1000 A                                                                                                                                                                                                                                                                                                                                                           |
| <b>Earth-Leakage Protection</b>                                  | Without                                                                                                                                                                                                                                                                                                                                                          |
| <b>Number Of Slots For Electrical Auxiliaries</b>                | 1 slot(s) for auxiliary switch OF<br>1 slot(s) for alarm switch SD<br>1 slot(s) for voltage release MN or MX                                                                                                                                                                                                                                                     |
| <b>Local Signalling</b>                                          | Flag (green) for presence of auxiliary contacts                                                                                                                                                                                                                                                                                                                  |
| <b>Width (W)</b>                                                 | 81 mm                                                                                                                                                                                                                                                                                                                                                            |
| <b>Height (H)</b>                                                | 137 mm                                                                                                                                                                                                                                                                                                                                                           |
| <b>Depth (D)</b>                                                 | 80 mm                                                                                                                                                                                                                                                                                                                                                            |
| <b>Net Weight</b>                                                | 1.06 kg                                                                                                                                                                                                                                                                                                                                                          |
| <b>Colour</b>                                                    | Grey (RAL 7016)                                                                                                                                                                                                                                                                                                                                                  |

## Environment

|                                              |                              |
|----------------------------------------------|------------------------------|
| <b>Standards</b>                             | EN/IEC 60947                 |
| <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                  |

|                    |                                                 |
|--------------------|-------------------------------------------------|
| Relative Humidity  | 0...95 %                                        |
| Operating Altitude | 2000 m without derating<br>5000 m with derating |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 12.0 cm  |
| Package 1 Width              | 9.0 cm   |
| Package 1 Length             | 21.0 cm  |
| Package 1 Weight             | 1.206 kg |
| Unit Type Of Package 2       | S03      |
| Number Of Units In Package 2 | 9        |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 11.21 kg |

Sustainability



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Transparency   RoHS/REACH

## Well-being performance

|                                                                                                                      |     |
|----------------------------------------------------------------------------------------------------------------------|-----|
|  Mercury Free                       |     |
|  Rohs Exemption Information         | Yes |
|  Halogen Free Plastic Parts Product |     |

## 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      | No need of specific recycling operations                                                                              |