

# Product datasheet

Specifications



circuit breaker ComPact NSXm B (25 kA at 415 VAC). 4P 4d. 100 A rating Micrologic 4.1 trip unit. EverLink connectors

LV426717

⚠ Discontinued on: 15 Jun 2023

⚠ Discontinued

Price: 13,341.13 ZAR

## Main

|                                                      |                                                                                                                                                                                              |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                      |
| Product Name                                         | ComPact NSXm                                                                                                                                                                                 |
| Range Of Product                                     | ComPact NSXm                                                                                                                                                                                 |
| Device Short Name                                    | NSXm 100B                                                                                                                                                                                    |
| Product Or Component Type                            | Earth leakage circuit breaker                                                                                                                                                                |
| Device Application                                   | Distribution Protection                                                                                                                                                                      |
| Number Of Poles                                      | 4P                                                                                                                                                                                           |
| Protected Poles Description                          | 4D                                                                                                                                                                                           |
| Neutral Position                                     | Left                                                                                                                                                                                         |
| [In] Rated Current                                   | 100 A at 40 °C                                                                                                                                                                               |
| [Ue] Rated Operational Voltage                       | 440 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 | 50 kA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level                                    | B 25 kA 415 V AC                                                                                                                                                                             |
| Trip Unit Name                                       | MicroLogic 4.1                                                                                                                                                                               |
| Trip Unit Technology                                 | Electronic                                                                                                                                                                                   |
| Trip Unit Protection Functions                       | LSolR                                                                                                                                                                                        |
| Control Type                                         | Toggle                                                                                                                                                                                       |
| Circuit Breaker Mounting Mode                        | By screws<br>Clip-on                                                                                                                                                                         |

## Complementary

|                                        |                   |
|----------------------------------------|-------------------|
| [Ui] Rated Insulation Voltage          | 500 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>         | 50 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2                                                                                              |
| <b>Mechanical Durability</b>                                       | 20000 cycles                                                                                                                                                                                                                                                                  |
| <b>Electrical Durability</b>                                       | 10000 cycles at 440 V In<br>20000 cycles at 440 V In/2                                                                                                                                                                                                                        |
| <b>Mounting Support</b>                                            | Plate<br>DIN rail                                                                                                                                                                                                                                                             |
| <b>Connection Terminals</b>                                        | 1 Everlink lug wire size 2.5...70 mm², fine stranded copper<br>1 Everlink lug wire size 2.5...95 mm², rigid or stranded aluminium/copper                                                                                                                                      |
| <b>Connection Pitch</b>                                            | 35 mm with spreaders<br>27 mm without spreaders                                                                                                                                                                                                                               |
| <b>9 Mm Pitches</b>                                                | 12 module                                                                                                                                                                                                                                                                     |
| <b>Protection Type</b>                                             | L : for overload protection (thermal)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection<br>R : for earth-leakage protection                                                                                  |
| <b>Trip Unit Rating</b>                                            | 100 A at 40 °C                                                                                                                                                                                                                                                                |
| <b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b>   | Adjustable 9 settings                                                                                                                                                                                                                                                         |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>          | 40...100 A                                                                                                                                                                                                                                                                    |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>               | Fixed                                                                                                                                                                                                                                                                         |
| <b>[Tr] Long-Time Protection Delay Adjustment Range</b>            | 5 s at 7.2 x Ir<br>8 s at 6 x Ir<br>200 s at 1.5 x Ir                                                                                                                                                                                                                         |
| <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>        | 1.5...10 x Ir                                                                                                                                                                                                                                                                 |
| <b>Short-Time Protection Delay Adjustment Type Tsd</b>             | Fixed                                                                                                                                                                                                                                                                         |
| <b>[Tsd] Short-Time Protection Delay Adjustment Range</b>          | 0.02 s                                                                                                                                                                                                                                                                        |
| <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>                                    | Integrated                                                                                                                                                                                                                                                                    |
| <b>Earth-Leakage Protection Sensitivity Adjustment Type Iōn</b>    | Adjustable                                                                                                                                                                                                                                                                    |
| <b>[Iōn] Earth-Leakage Protection Sensitivity Adjustment Range</b> | 0.03...5 A                                                                                                                                                                                                                                                                    |
| <b>Earth-Leakage Sensitivity</b>                                   | 30 mA for class A<br>100 mA for class A<br>300 mA for class A<br>500 mA for class A<br>1000 mA for class A<br>30 mA for class AC<br>100 mA for class AC<br>300 mA for class AC<br>500 mA for class AC<br>1000 mA for class AC<br>3000 mA for class AC<br>5000 mA for class AC |
| <b>Earth-Leakage Protection Time Delay Adjustment Type Δt</b>      | Adjustable                                                                                                                                                                                                                                                                    |
| <b>[Δt] Earth-Leakage Protection Time Delay Adjustment Range</b>   | 0 ms<br>60 ms<br>150 ms<br>500 ms<br>1000 ms                                                                                                                                                                                                                                  |

|                                            |                                                                                                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Neutral Protection Settings                | No protection<br>1 x Ir<br>0.5 x Ir                                                                               |
| Number Of Slots For Electrical Auxiliaries | 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      |
| Local Signalling                           | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload |
| Width (W)                                  | 108 mm                                                                                                            |
| Height (H)                                 | 144 mm                                                                                                            |
| Depth (D)                                  | 80 mm                                                                                                             |
| Net Weight                                 | 1.63 kg                                                                                                           |
| Colour                                     | Grey (RAL 7016)                                                                                                   |

## Environment

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| Standards                             | EN/IEC 60947                                               |
| Product Certifications                | CCC<br>EAC                                                 |
| 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   | -40...85 °C                                                |
| Relative Humidity                     | 0...95 %                                                   |
| Operating Altitude                    | 0...2000 m without derating<br>2000...5000 m with derating |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 16.0 cm  |
| Package 1 Width              | 13.0 cm  |
| Package 1 Length             | 19.0 cm  |
| Package 1 Weight             | 1.9 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             | 8.041 kg |

Sustainability



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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>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |