

# Product datasheet

Specifications



Circuit breaker ComPacT  
NSX100HB1. 75kA at 690VAC.  
MA trip unit 12.5A. 3 poles 3d

C10V3MA013

Price: 7,461.12 ZAR

## Main

|                                                      |                                                                                                                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                               |
| Product Name                                         | ComPacT NSX new generation                                                                                                                                                           |
| Device Short Name                                    | NSX100HB1                                                                                                                                                                            |
| Product Or Component Type                            | Circuit breaker                                                                                                                                                                      |
| Device Application                                   | Motor protection                                                                                                                                                                     |
| Poles Description                                    | 3P                                                                                                                                                                                   |
| Protected Poles Description                          | 3D                                                                                                                                                                                   |
| [In] Rated Current                                   | 12.5 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 | 85 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level                                    | HB1 75 kA 690 V AC                                                                                                                                                                   |
| Trip Unit Name                                       | MA                                                                                                                                                                                   |
| Trip Unit Technology                                 | Magnetic                                                                                                                                                                             |
| Trip Unit Protection Functions                       | I                                                                                                                                                                                    |
| 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 | 85 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical Durability                               | 20000 cycles                                                                                                                                                             |
| Electrical Durability                               | 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                                                          |

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

|                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| Power Dissipation Per Pole                             | 0.63 W                                      |
| Mounting Support                                       | Backplate                                   |
| Mounting Position                                      | Horizontal and vertical<br>Flat on the back |
| Upside Connection                                      | Front                                       |
| Downside Connection                                    | Front                                       |
| Connection Pitch                                       | 35 mm                                       |
| Protection Type                                        | I : for short-circuit protection (magnetic) |
| Trip Unit Rating                                       | 12.5 A at 65 °C                             |
| Short-Time Protection Pick-Up Adjustment Type Isd      | Adjustable 9 settings                       |
| [Isd] Short-Time Protection Pick-Up Adjustment Range   | 6...14 x In                                 |
| Instantaneous Protection Pick-Up Adjustment Type Ii    | Adjustable 9 settings                       |
| [Ii] Instantaneous Protection Pick-Up Adjustment Range | 6...14 x In                                 |
| Earth-Leakage Protection                               | Without                                     |
| Number Of Slots For Electrical Auxiliaries             | 5 slot(s)                                   |
| Width (W)                                              | 105 mm                                      |
| Height (H)                                             | 161 mm                                      |
| Depth (D)                                              | 86 mm                                       |
| Net Weight                                             | 2.05 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             | 14.200 cm |
| Package 1 Width              | 11.500 cm |
| Package 1 Length             | 19.400 cm |

|                              |           |
|------------------------------|-----------|
| Package 1 Weight             | 1.818 kg  |
| Unit Type Of Package 2       | S03       |
| Number Of Units In Package 2 | 7         |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 13.094 kg |

Sustainability



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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>                                                                               |