

Product datasheet

Specifications



circuit breaker ComPact
NSX100HB1. 75 kA at 690 V AC.
MicroLogic 2.2 trip unit 40 A. 3
poles 3d

LV433300

! Discontinued

! Discontinued on: 18 Dec 2023

Price: 8,870.19 ZAR

Main

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| Range | ComPact |
| Product Name | ComPact NSX |
| Range Of Product | ComPact NSX100...250 |
| Device Short Name | NSX100HB1 |
| Product Or Component Type | Circuit breaker |
| Device Application | Distribution |
| Number Of Poles | 3P |
| Protected Poles Description | 3t |
| [In] Rated Current | 40 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 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 80 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 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 | MicroLogic 2.2 |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | LSol |
| Control Type | Toggle |
| Circuit Breaker Mounting Mode | Fixed |

Complementary

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| [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 80 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical Durability | 50000 cycles |

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

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|--|--|
| Electrical Durability | 10000 cycles at 690 V In 20000 cycles at 690 V In/2 30000 cycles at 440 V In 50000 cycles at 440 V In/2 |
| Mounting Support | Backplate |
| Upside Connection | Front |
| Downside Connection | Front |
| Connection Pitch | 35 mm |
| Protection Type | L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection |
| Trip Unit Rating | 40 A at 40 °C |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable 9 settings |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 18...40 A |
| Long-Time Protection Delay Adjustment Type Tr | Fixed |
| [Tr] Long-Time Protection Delay Adjustment Range | 11 s at 7.2 x Ir 16 s at 6 x Ir 400 s at 1.5 x Ir |
| Thermal Memory | 20 minutes before and after tripping |
| Short-Time Protection Pick-Up Adjustment Type Isd | Adjustable 9 settings |
| [Isd] Short-Time Protection Pick-Up Adjustment Range | 1.5...10 x Ir |
| Short-Time Protection Delay Adjustment Type Tsd | Fixed |
| Instantaneous Protection Pick-Up Adjustment Type Ii | Fixed |
| [Ii] Instantaneous Protection Pick-Up Adjustment Range | 600 A |
| Earth-Leakage Protection | Without |
| Zone Selective Interlocking Zsi | Without |
| Number Of Slots For Electrical Auxiliaries | 5 slot(s) |
| Local Signalling | Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload |
| Width (W) | 105 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net Weight | 2.05 kg |

Environment

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| Standards | EN/IEC 60947 |
| Product Certifications | Marine CCC EAC |
| 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 |

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| 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 2000 m...5000 m with derating |

Packing Units

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|-------------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 13.9 cm |
| Package 1 Width | 11.3 cm |
| Package 1 Length | 19.2 cm |
| Package 1 Weight | 1.857 kg |
| Unit Type Of Package 2 | S04 |
| Number Of Units In Package 2 | 12 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 40.0 cm |
| Package 2 Length | 60.0 cm |
| Package 2 Weight | 22.559 kg |

Contractual warranty

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| Warranty | 18 months |
|-----------------|-----------|

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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

Rohs Exemption Information [Yes](#)

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)