

Product data sheet

Specifications



Circuit breaker, ComPact NSX100H, 70kA/415VAC, MicroLogic 7.2E Vigi trip unit 40A, 4 poles 4d

LV434627

⚠ Discontinued on: Jun 30, 2023

⚠ Discontinued

Important message: This product has been switched to new ComPacT range and is no longer commercialized.

Main

| | |
|--|---|
| Range | ComPact |
| Product Name | ComPact NSX |
| Range Of Product | ComPact NSX100...250 |
| Device Short Name | NSX100H |
| Product Or Component Type | Earth leakage circuit breaker |
| Device Application | Distribution |
| Number Of Poles | 4P |
| Protected Poles Description | 3t + N/2 3t 4t |
| Neutral Position | Left |
| [In] Rated Current | 40 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 | 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level | H 70 kA 415 V AC |
| Trip Unit Name | MicroLogic 7.2 E |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | LSIR |
| Control Type | Toggle |
| Circuit Breaker Mounting Mode | Fixed |

Complementary

| | |
|--|-------------------|
| [Ui] Rated Insulation Voltage | 500 V AC 50/60 Hz |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV |

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

| | |
|--|---|
| [Ics] Rated Service Short-Circuit Breaking Capacity | 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical Durability | 20000 cycles |
| Electrical Durability | 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) S : for short time short-circuit protection I : for instantaneous short-circuit protection R : for earth-leakage 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 | Adjustable |
| [Tr] Long-Time Protection Delay Adjustment Range | 15...400 s at 1.5 x Ir 0.5...16 s at 6 x Ir 0.35...11 s at 7.2 x Ir |
| Thermal Memory | 20 minutes before and after tripping |
| Short-Time Protection Pick-Up Adjustment Type Isd | Adjustable |
| [Isd] Short-Time Protection Pick-Up Adjustment Range | 1.5...10 x Ir |
| Short-Time Protection Delay Adjustment Type Tsd | Adjustable |
| [Tsd] Short-Time Protection Delay Adjustment Range | 0...0.4 s |
| Instantaneous Protection Pick-Up Adjustment Type Ii | Adjustable |
| [Ii] Instantaneous Protection Pick-Up Adjustment Range | 1.5...15 x In |
| Earth-Leakage Protection | Integrated |
| Earth-Leakage Protection Class | Class A |
| Earth-Leakage Protection Sensitivity Adjustment Type IΔn | Adjustable |
| [IΔn] Earth-Leakage Protection Sensitivity Adjustment Range | 30 mA 100 mA 300 mA 500 mA 1 A 3 A 5 A |
| Earth-Leakage Protection Specific Mode | OFF using the IΔn rotary switch |
| Earth-Leakage Protection Time Delay Adjustment Type Δt | Adjustable |
| [Δt] Earth-Leakage Protection Time Delay Adjustment Range | 0 ms 60 ms 150 ms 500 ms 1 s |
| Neutral Protection Settings | 0.5 x Ir (3t + N/2) 1 x Ir (4t) No protection (3t) |
| 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 |
| Display Type | LCD display |
| Type Of Measurement | Energy meter |
| Width (W) | 140 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net Weight | 2.4 kg |

Environment

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

Packing Units

| | |
|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 12.0 cm |
| Package 1 Width | 16.0 cm |
| Package 1 Length | 14.0 cm |
| Package 1 Weight | 3.1 kg |

Contractual warranty

| | |
|----------|-----------|
| 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.

[Learn more about Green Premium >](#)

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



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

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 |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |