

Product data sheet

Specifications



Circuit breaker, ComPact NSX250F, 36kA/415VAC, MicroLogic 5.2A trip unit 100A, 3 poles 3d

LV431862

⚠ Discontinued on: Sep 16, 2021

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Main

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| Range | ComPact |
| Product Name | ComPact NSX |
| Range Of Product | ComPact NSX100...250 |
| Device Short Name | NSX250F |
| Product Or Component Type | Circuit breaker |
| Device Application | Distribution |
| Number Of Poles | 3P |
| Protected Poles Description | 3t |
| [In] Rated Current | 100 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 at 240 V AC 50/60 Hz conforming to UL 508 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 480 V AC 50/60 Hz conforming to UL 508 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| Performance Level | F 36 kA 415 V AC |
| Trip Unit Name | MicroLogic 5.2 A |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | LSI |
| 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 |

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

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| [Ics] Rated Service Short-Circuit Breaking Capacity | 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 22 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 30 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 8 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical Durability | 20000 cycles |
| Electrical Durability | 5000 cycles at 690 V In 10000 cycles at 690 V In/2 10000 cycles at 440 V In 20000 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 |
| Trip Unit Rating | 100 A at 40 °C |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 40...100 A |
| Long-Time Protection Delay Adjustment Type Tr | Adjustable |
| [Tr] Long-Time Protection Delay Adjustment Range | 15...400 s at 1.5 x Ir 0.35...11 s at 7.2 x Ir 0.5...16 s at 6 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...12 x In |
| Earth-Leakage Protection | Without |
| Zone Selective Interlocking Zsi | With |
| 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 | Ammeter |
| Communication Of Data | Energy metering Time-stamped histories and event tables Demand current and power Protection and alarm settings Instantaneous and demand values Maximeters/minimeters Power quality Maintenance indicators |
| Width (W) | 105 mm |

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| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net Weight | 2.4 kg |

Environment

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|---------------------------------------|--|
| 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

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| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

Contractual warranty

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| Warranty | 18 months |
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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 >](#)



RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

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