

Product data sheet

Specifications



Circuit breaker, ComPact NSX250R, 200kA/415VAC, MicroLogic 6.2E-M trip unit 150A, 3 poles 3d

LV433530

⚠ 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 | NSX250R |
| Product Or Component Type | Circuit breaker |
| Device Application | Motor |
| Number Of Poles | 3P |
| Protected Poles Description | 3t |
| [In] Rated Current | 150 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 | 200 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 200 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 200 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 80 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 45 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level | R 200 kA 415 V AC |
| Trip Unit Name | MicroLogic 6.2 E-M |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | LSIG |
| Control Type | Toggle |
| Circuit Breaker Mounting Mode | Fixed |

Complementary

| | |
|--|-------------------|
| [Uij] 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

| | |
|--|---|
| [Ics] Rated Service Short-Circuit Breaking Capacity | 200 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 200 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 200 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 80 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 45 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 G : for ground fault protection |
| Trip Unit Rating | 150 A at 65 °C |
| Motor Tripping Class | 30 5 10 20 |
| Complementary Motor Protection | Underload Protracted starting time Stalled rotor Phase unbalance |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable 9 settings |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 70...150 A |
| Long-Time Protection Delay Adjustment Type Tr | Adjustable |
| [Tr] Long-Time Protection Delay Adjustment Range | 10 s at 7.2 x Ir for trip class 10 120 s at 1.5 x Ir for trip class 5 20 s at 7.2 x Ir for trip class 20 240 s at 1.5 x Ir for trip class 10 26 s at 6 x Ir for trip class 20 480 s at 1.5 x Ir for trip class 20 5 s at 7.2 x Ir for trip class 5 13.5 s at 6 x Ir for trip class 10 6.5 s at 6 x Ir for trip class 5 30 s at 7.2 x Ir for trip class 30 38 s at 6 x Ir for trip class 30 720 s at 1.5 x Ir for trip class 30 |
| 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 | 5...13 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 | 2250 A |
| Ground-Fault Protection Pick-Up Adjustment Type Ig | Adjustable 9 settings |
| [Ig] Ground-Fault Protection Pick-Up Adjustment Range | 0.6...1 x In for In = 25 A 0.3...1 x In for In = 50 A 0.2...1 x In for In > 50 A Ig enable on/off |

| | |
|--|--|
| Ground-Fault Protection Time Delay Adjustment Type Tg | Adjustable |
| [Tg] Ground-Fault Protection Time Delay Adjustment Range | 0...0.4 s |
| 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 95 % lth (red) for temperature over set point |
| Display Type | LCD display |
| Type Of Measurement | Energy meter |
| Communication Of Data | Maintenance indicators Maximeters/minimeters Phase sequence Instantaneous and demand values Demand current and power Energy metering Thermal image function Power quality Protection and alarm settings Time-stamped histories and event tables |
| Width (W) | 105 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net Weight | 2.4 kg |

Environment

| | |
|---------------------------------------|--|
| Standards | EN/IEC 60947 |
| Product Certifications | Marine EAC CCC |
| 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 | 13.5 cm |
| Package 1 Width | 10.8 cm |
| Package 1 Length | 19.2 cm |
| Package 1 Weight | 2.12 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 >](#)



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 |

| | |
|---------------------------|--|
| California Proposition 65 | WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
|---------------------------|--|