

Product datasheet

Specifications



Circuit breaker ComPacT NSX160N, 50kA at 415VAC, TMD trip unit 125A, 3 poles 3d

C16N3TM125

Main

| | |
|--|--|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX160N |
| product or component type | Circuit breaker |
| Device application | Distribution |
| poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 125 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 | 90 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | N 50 kA 415 V AC |
| Trip unit name | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| 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 | 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 40000 cycles |

| | |
|--|---|
| Electrical durability | 40000 cycles at 440 V In/2 20000 cycles at 440 V In 15000 cycles at 690 V In/2 7500 cycles at 690 V In |
| Power dissipation per pole | 10.78 W |
| mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |
| downside connection | Front |
| Connection pitch | 35 mm |
| Protection type | L : for overload protection (thermal) I : for short-circuit protection (magnetic) |
| Trip unit rating | 125 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable |
| [Ir] long-time protection pick-up adjustment range | 0.7...1 x In |
| Long-time protection delay adjustment type tr | Fixed |
| [tr] long-time protection delay adjustment range | 120...400 s at 1.5 x In 15 s at 6 x Ir |
| Instantaneous protection pick-up adjustment type Ii | Fixed |
| [Ii] instantaneous protection pick-up adjustment range | 1250 A |
| 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 | 2.2 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 | -50...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 | 14.2 cm |
| Package 1 Width | 11.5 cm |
| Package 1 Length | 19.6 cm |
| Package 1 Weight | 1.838 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 7 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 13.25 kg |

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](#)

Circularity Profile [End of Life Information](#)