

Product datasheet

Specifications



Circuit breaker ComPacT NSX160N, 50kA at 415VAC, TMD trip unit 160A, 50 degrees C, 3 poles 3D

C16N3TM160C

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 | 160 A at 50 °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 |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

| | |
|--|---|
| 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 | 13.95 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 | 160 A at 50 °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 |

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](#)

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](#)