Product datasheet

Specifications

, Green Premium™



Circuit breaker, ComPact NS1600N, 50kA/415VAC, Micrologic 2.0 trip unit, 1600A, fixed, 3 poles 3d

33482

① To be discontinued

() Discontinued on: 31 Mar 2024

Main

| Mann | |
|---|--|
| Range | ComPact |
| Product Name | ComPact NS |
| Range Of Product | ComPact NS630b1600 |
| Device Short Name | Compact NS1600N |
| Product Or Component Type | Circuit breaker |
| Device Application | Distribution |
| Number Of Poles | 3P |
| Protected Poles Description | 3D |
| (In) Rated Current Up To 65 °C | 1600 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 B |
| [Icu] Rated Ultimate Short-Circuit Breaking Capacity | 30 kA Icu at 660/690 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 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level | N 50 kA 415 V AC |
| Trip Unit Name | MicroLogic 2.0 |
| Trip Unit Technology | Electronic |
| Trip Unit Protection Functions | L |
| Control Type | Toggle Rotary handle |
| Circuit Breaker Mounting Mode | Fixed |

Complementary

| [Ui] Rated Insulation Voltage | 800 V AC 50/60 Hz conforming to IEC 60947-2 |
|-------------------------------|---|
| | 8 kV conforming to IEC 60947-2 |

| [Ics] Rated Service Short-Circuit | 30 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
|--|--|
| Breaking Capacity | 37 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 37 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 22 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 37 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Icw] Rated Short-Time Withstand Current | 19.2 kA 1 s conforming to IEC 60947-2 |
| Mechanical Durability | 10000 cycles |
| Electrical Durability | 1000 cycles at 690 V In |
| | 2000 cycles at 690 V ln/2 |
| | 2000 cycles at 440 V In 5000 cycles at 440 V In/2 |
| Power Losses | 74 W |
| Mounting Support | |
| | Backplate |
| Upside Connection | Front |
| Downside Connection | Front |
| Connection Pitch | 70 mm |
| Protection Type | L : for overload protection (long time) |
| | I : for instantaneous short-circuit protection |
| Trip Unit Rating | 1600 A at 50 °C |
| Long-Time Pick-Up Adjustment Type Ir (Thermal Protection) | Adjustable 9 settings |
| [Ir] Long-Time Protection Pick-Up Adjustment Range | 0.41 x ln |
| Long-Time Protection Delay Adjustment Type Tr | Adjustable 9 settings |
| [Tr] Long-Time Protection Delay | 12.5600 s at 1.5 x lr |
| Adjustment Range | 0.524 s at 6 x lr |
| | 0.716.6 s at 7.2 x lr |
| Thermal Memory | 20 mn |
| Instantaneous Protection Pick-Up Adjustment Type Ii | Adjustable |
| [li] Instantaneous Protection Pick- Up Adjustment Range | 1.510 x lr |
| Earth-Leakage Protection | Without |
| Zone Selective Interlocking Zsi | Without |
| Auxiliary Contact Composition | 1 NO/NC |
| Local Signalling | 4 LEDs (red) for fault indication |
| | 1 LED (yellow) for overload |
| Width (W) | 210 mm |
| Height (H) | 327 mm |
| Depth (D) | 147 mm |
| Net Weight | 14 kg |
| | |

Environment

| Standards | EN/IEC 60947-2 |
|--|------------------------------|
| Product Certifications | ASTA ASEFA |
| Pollution Degree | 3 conforming to IEC 60947 |
| Ip Degree Of Protection | IP40 conforming to IEC 60529 |
| Ik Degree Of Protection | IK07 conforming to EN 50102 |
| Ambient Air Temperature For Operation | -2570 °C |

| Ambient Air Temperature For Storage | -5085 °C |
|--|--|
| Relative Humidity | 095 % |
| Operating Altitude | 02000 m without derating 2000 m5000 m with derating |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 30 cm |
| Package 1 Width | 40 cm |
| Package 1 Length | 60 cm |
| Package 1 Weight | 14 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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 |
| 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 |