# Product datasheet

Specifications



## circuit breaker Compact NS1600bN 1600 A - 4 poles - fixed - without trip unit

34003

Discontinued on: 30 Sep 2024

Discontinued

## Main

| | |
|---|---|
| **Range** | ComPact |
| **Range of product** | ComPact NS1600b...3200 |
| **Device short name** | Compact NS1600bN |
| **Product or component type** | Basic frame |
| **Device application** | Distribution |
| **Number of poles** | 4P |
| **Neutral position** | Left |
| **[In] rated current** | 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 A |
| **Breaking capacity** | 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Breaking capacity code** | N 50 kA 415 V AC |
| **Control type** | Toggle |
| **Mounting mode** | Fixed |

## Complementary

| | |
|---|---|
| **[Ui] rated insulation voltage** | 800 V AC 50/60 Hz conforming to IEC 60947-2 |
| **[Uimp] rated impulse withstand voltage** | 8 kV conforming to IEC 60947-2 |
| **[Ics] rated service breaking capacity** | 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>65 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>65 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>52 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>65 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation) |
| **[Icw] rated short-time withstand current** | 32 kA 3 s conforming to IEC 60947-2 |
| **Integral instant protection** | 130 kA |
| **Mechanical durability** | 5000 cycles conforming to IEC 60947-2 |

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

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

| | |
|---|---|
| **Electrical durability** | 1000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2<br>2000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>2000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>3000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| **Power losses** | 84 W |
| **Mounting support** | Backplate |
| **Upside connection** | Front |
| **Downside connection** | Front |
| **Connection pitch** | 115 mm |
| **Protection type** | Without protection |
| **Height (H)** | 350 mm |
| **Width (W)** | 535 mm |
| **Depth (D)** | 160 mm |

## Environment

| | |
|---|---|
| **Standards** | IEC 60947-2 |
| **Product certifications** | ASEFA<br>LCIE<br>ASTA |
| **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 storage** | -50…85 °C |
| **Ambient air temperature for operation** | -25…70 °C |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 45.0 cm |
| **Package 1 Width** | 60.0 cm |
| **Package 1 Length** | 80.0 cm |
| **Package 1 Weight** | 51.153 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Use Better

#### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No** |
| SCIP Number | **038346ff-cba9-49ab-81f2-8ec5a11bc3c6** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| PVC free | **Yes** |

### Use Longer

#### Lifetime extension

| | |
|---|---|
| Repair | **No** |

### Use Again

#### Repack and remanufacture

| | |
|---|---|
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |