# Product datasheet

Specifications



Discontinued

## circuit breaker Compact NS630bN - 630 A - 4 poles - fixed - without trip unit

33224

Discontinued on: 31 Mar 2024

## Main

| | |
|---|---|
| **Range** | ComPact |
| **Range of product** | ComPact NS630b...1600 |
| **Device short name** | Compact NS630bN |
| **Product or component type** | Basic frame |
| **Device application** | Distribution |
| **Number of poles** | 4P |
| **Neutral position** | Left |
| **[In] rated current** | 630 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 |
| **Breaking capacity** | 30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>40 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** | Rotary handle<br>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** | 30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>50 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation)<br>50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 (manual operation) |
| **[Icw] rated short-time withstand current** | 19.2 kA 1 s conforming to IEC 60947-2 |
| **Integral instant protection** | 40 kA |
| **Mechanical durability** | 10000 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** | 2000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2<br>4000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>5000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>6000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| **Power losses** | 10 W |
| **Mounting support** | Backplate |
| **Connection pitch** | 70 mm |
| **Protection type** | Without protection |
| **Height (H)** | 327 mm |
| **Width (W)** | 280 mm |
| **Depth (D)** | 147 mm |

## Environment

| | |
|---|---|
| **Standards** | IEC 60947-2 |
| **Product certifications** | ASTA<br>LCIE<br>ASEFA |
| **Overvoltage category** | III |
| **Electrical shock protection class** | Class II on front face |
| **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** | 37.0 cm |
| **Package 1 Width** | 38.0 cm |
| **Package 1 Length** | 30.0 cm |
| **Package 1 Weight** | 14.731 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 >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **530 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **206 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **4 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **2 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **296 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **21 kg CO2 eq.** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No** |
| EU RoHS Directive | **Compliant with Exemptions** |
| SCIP Number | **76c2e213-3b51-4d8b-afdf-632ded42d731** |
| REACh Regulation | **REACh Declaration** |
| Halogen-free status | **Product contains halogen above thresholds** |
| PVC free | **Yes** |
| Silicone-free | **No** |

## Use Longer

### Lifetime extension

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

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **56** |
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |