# Product datasheet

Specifications

# circuit breaker ComPacT NSX630HB2, 100 kA at 690 VAC, MicroLogic 2.3 trip unit 630 A, 4 poles 4d

C63W42D630

**EAN Code : 3606481989314**

## Main

| | |
|---|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX630HB2 |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4D<br>3D + N/2<br>3D |
| Neutral position | Left |
| [In] rated current | 630 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 | 100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | HB2 100 kA 690 V AC |
| Trip unit name | MicroLogic 2.3 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSoI |
| 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 | 100 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 |

|  |  |
|---|---|
|  | 100 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Mechanical durability** | 15000 cycles |
| **Electrical durability** | 8000 cycles at 440 V In/2<br>4000 cycles at 440 V In<br>6000 cycles at 690 V In/2<br>2000 cycles at 690 V In |
| **Power dissipation per pole** | 39.69 W |
| **Mounting support** | Backplate |
| **Mounting position** | Horizontal and vertical<br>Flat on the back |
| **Upside connection** | Front |
| **Downside connection** | Front |
| **Connection pitch** | 45 mm |
| **Protection type** | L : for overload protection (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection |
| **Trip unit rating** | 630 A at 40 °C |
| **Long-time pick-up adjustment type Ir (thermal protection)** | Adjustable 9 settings |
| **[Ir] long-time protection pick-up adjustment range** | 250...630 A |
| **Long-time protection delay adjustment type tr** | Fixed |
| **[Tr] long-time protection delay adjustment range** | 400 s at 1.5 x Ir<br>16 s at 6 x Ir<br>11 s at 7.2 x Ir |
| **Neutral protection settings** | 0.5 x Ir (3D + N/2)<br>1 x Ir (4D)<br>No protection (3D) |
| **Thermal memory** | 20 minutes before and after tripping |
| **Short-time protection pick-up adjustment type Isd** | Adjustable 9 settings |
| **[Isd] Short-time protection pick-up adjustment range** | 1.5...10 x Ir |
| **Short-time protection delay adjustment type tsd** | Fixed |
| **Instantaneous protection pick-up adjustment type Ii** | Fixed |
| **[Ii] instantaneous protection pick-up adjustment range** | 6900 A |
| **Earth-leakage protection** | Without |
| **Zone selective interlocking ZSI** | Without |
| **Number of slots for electrical auxiliaries** | 6 slot(s) |
| **Local signalling** | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload |
| **Width (W)** | 185 mm |
| **Height (H)** | 255 mm |
| **Depth (D)** | 110 mm |
| **Net weight** | 8.13 kg |

## Environment

|  |  |
|---|---|
| **Standards** | EN/IEC 60947 |

| Product certifications | CCC<br>EAC<br>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<br>2000 m...5000 m with derating |

## Packing Units

| Unit Type of Package 1 | PCE |
|---|---|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.2 cm |
| Package 1 Width | 20.3 cm |
| Package 1 Length | 29.2 cm |
| Package 1 Weight | 7.561 kg |

## Offer Sustainability

| Sustainable offer status | Green Premium product |
|---|---|
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant<br>EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| PVC free | Yes |
| Halogen content performance | Halogen free plastic parts product |

## Contractual warranty

| Warranty | 18 months |
|---|---|

## Recommended replacement(s)