# Product data sheet

Specifications

Green Premium™

## circuit breaker Compact NS1600H - Micrologic 5.0 A - 1600 A - 3 poles 3t

33368

To be discontinued

Discontinued on: Dec 31, 2023

To be end-of-service on: Apr 30, 2024

## Main

| | |
|---|---|
| **Range** | ComPact |
| **Product Name** | ComPact NS |
| **Range Of Product** | ComPact NS630b...1600 |
| **Device Short Name** | Compact NS1600H |
| **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** | 42 kA Icu at 660/690 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>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Performance Level** | H 70 kA 415 V AC |
| **Trip Unit Name** | MicroLogic 5.0 A |
| **Trip Unit Technology** | Electronic |
| **Trip Unit Protection Functions** | LSI |
| **Control Type** | Toggle<br>Rotary handle |
| **Circuit Breaker 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 |

List Price displayed is VAT EXCLUSIVE.

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

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|---|---|
| **[Ics] Rated Service Short-Circuit Breaking Capacity** | 30 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>37 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>37 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>22 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>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<br>2000 cycles at 690 V In/2<br>2000 cycles at 440 V In<br>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)<br>S : for short time short-circuit protection<br>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** | 0.4...1 x In |
| **Long-Time Protection Delay Adjustment Type Tr** | Adjustable 9 settings |
| **[Tr] Long-Time Protection Delay Adjustment Range** | 12.5…600 s at 1.5 x Ir<br>0.5…24 s at 6 x Ir<br>0.7…16.6 s at 7.2 x Ir |
| **Thermal Memory** | 20 mn |
| **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** | Adjustable |
| **[Tsd] Short-Time Protection Delay Adjustment Range** | 0.1…0.4 s $I^2t$=on<br>0…0.4 s $I^2t$=off |
| **Instantaneous Protection Pick-Up Adjustment Type Ii** | Adjustable |
| **[Ii] Instantaneous Protection Pick-Up Adjustment Range** | Off<br>2...15 x In |
| **Earth-Leakage Protection** | Without |
| **Zone Selective Interlocking Zsi** | With |
| **Auxiliary Contact Composition** | 1 NO/NC |
| **Local Signalling** | 4 LEDs (red) for fault indication<br>1 LED (yellow) for overload |
| **Display Type** | LCD display |
| **Type Of Measurement** | Ammeter |
| **Width (W)** | 210 mm |
| **Height (H)** | 327 mm |
| **Depth (D)** | 147 mm |
| **Net Weight** | 14 kg |

## Environment

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|---|---|
| **Standards** | EN/IEC 60947-2 |
| **Product Certifications** | ASEFA<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 Operation** | -25…70 °C |
| **Ambient Air Temperature For Storage** | -40…85 °C |
| **Relative Humidity** | 0…95 % |
| **Operating Altitude** | 0...2000 m without derating<br>2000 m...5000 m with derating |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 37.0 cm |
| **Package 1 Width** | 39.5 cm |
| **Package 1 Length** | 23.0 cm |
| **Package 1 Weight** | 12.705 kg |

## Contractual warranty

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

## 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-$CO_2$ 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

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>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 |