

# Product datasheet

Specifications



Circuit breaker, ComPact NS800H, 70kA/415VAC, Micrologic 6.0 trip unit, 800A, fixed, 4 poles 4d

33901

⚠ Discontinued on: 19 May 2023

⚠ Discontinued

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                  |
| Product name                                         | ComPact NS                                                                                                                                                                                                                                                                                                               |
| Range of product                                     | ComPact NS630b...1600                                                                                                                                                                                                                                                                                                    |
| Device short name                                    | Compact NS800H                                                                                                                                                                                                                                                                                                           |
| Product or component type                            | Circuit breaker                                                                                                                                                                                                                                                                                                          |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                             |
| Number of poles                                      | 4P                                                                                                                                                                                                                                                                                                                       |
| Protected poles description                          | 4D                                                                                                                                                                                                                                                                                                                       |
| Neutral position                                     | Left                                                                                                                                                                                                                                                                                                                     |
| (In) rated current up to 65 °C                       | 800 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 6.0                                                                                                                                                                                                                                                                                                           |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                                                                               |
| Trip unit protection functions                       | LSIG                                                                                                                                                                                                                                                                                                                     |
| Control type                                         | Rotary handle<br>Toggle                                                                                                                                                                                                                                                                                                  |
| 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              |

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

|                                                                  |                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Ics] rated service short-circuit breaking capacity</b>       | 30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>[Icw] rated short-time withstand current</b>                  | 19.2 kA 1 s conforming to IEC 60947-2                                                                                                                                                                                                                                                                |
| <b>Mechanical durability</b>                                     | 10000 cycles                                                                                                                                                                                                                                                                                         |
| <b>Electrical durability</b>                                     | 2000 cycles at 690 V In<br>4000 cycles at 690 V In/2<br>5000 cycles at 440 V In<br>6000 cycles at 440 V In/2                                                                                                                                                                                         |
| <b>Power losses</b>                                              | 15 W                                                                                                                                                                                                                                                                                                 |
| <b>Mounting support</b>                                          | Backplate                                                                                                                                                                                                                                                                                            |
| <b>Upside connection</b>                                         | Front                                                                                                                                                                                                                                                                                                |
| <b>Downside connection</b>                                       | Front                                                                                                                                                                                                                                                                                                |
| <b>Connection pitch</b>                                          | 70 mm                                                                                                                                                                                                                                                                                                |
| <b>Protection type</b>                                           | L : for overload protection (long time)<br>S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection<br>G : for ground fault protection                                                                                                                          |
| <b>Trip unit rating</b>                                          | 800 A at 50 °C                                                                                                                                                                                                                                                                                       |
| <b>Long-time pick-up adjustment type Ir (thermal protection)</b> | Adjustable 9 settings                                                                                                                                                                                                                                                                                |
| <b>[Ir] long-time protection pick-up adjustment range</b>        | 0.4...1 x In                                                                                                                                                                                                                                                                                         |
| <b>Long-time protection delay adjustment type tr</b>             | Adjustable 9 settings                                                                                                                                                                                                                                                                                |
| <b>[tr] long-time protection delay adjustment range</b>          | 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                                                                                                                                                                                                                         |
| <b>Thermal memory</b>                                            | 20 mn                                                                                                                                                                                                                                                                                                |
| <b>Short-time protection pick-up adjustment type Isd</b>         | Adjustable 9 settings                                                                                                                                                                                                                                                                                |
| <b>[Isd] Short-time protection pick-up adjustment range</b>      | 1.5...10 x Ir                                                                                                                                                                                                                                                                                        |
| <b>Short-time protection delay adjustment type tsd</b>           | Adjustable                                                                                                                                                                                                                                                                                           |
| <b>[tsd] Short-time protection delay adjustment range</b>        | 0.1...0.4 s I²t=on<br>0...0.4 s I²t=off                                                                                                                                                                                                                                                              |
| <b>Instantaneous protection pick-up adjustment type Ii</b>       | Adjustable                                                                                                                                                                                                                                                                                           |
| <b>[Ii] instantaneous protection pick-up adjustment range</b>    | 2...15 x In<br>Off                                                                                                                                                                                                                                                                                   |
| <b>Ground-fault protection pick-up adjustment type Ig</b>        | Adjustable 9 settings                                                                                                                                                                                                                                                                                |
| <b>[Ig] ground-fault protection pick-up adjustment range</b>     | 0.3...1 x In for In ≤ 400 A<br>0.2...1 x In for 400 A < In < 1250 A<br>500...1200 A for In ≥ 1250 A                                                                                                                                                                                                  |
| <b>Ground-fault protection time delay adjustment type tg</b>     | Adjustable                                                                                                                                                                                                                                                                                           |
| <b>[tg] ground-fault protection time delay adjustment range</b>  | 0.1...0.4 s I²t=on<br>0...0.4 s I²t=off                                                                                                                                                                                                                                                              |
| <b>Earth-leakage protection</b>                                  | Without                                                                                                                                                                                                                                                                                              |
| <b>Neutral protection settings</b>                               | No protection (3D)<br>0.5 x Ir (3D + N/2)<br>1 x Ir (4D)                                                                                                                                                                                                                                             |
| <b>Zone selective interlocking ZSI</b>                           | Without                                                                                                                                                                                                                                                                                              |

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Auxiliary contact composition | 1 NO/NC                                                          |
| Local signalling              | 4 LEDs (red) for fault indication<br>1 LED (yellow) for overload |
| Width (W)                     | 280 mm                                                           |
| Height (H)                    | 327 mm                                                           |
| Depth (D)                     | 147 mm                                                           |
| Net weight                    | 18 kg                                                            |

## Environment

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2                                               |
| Product certifications                | ASTA<br>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 | -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   |

## 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 Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |