

# Product data sheet

Specifications



circuit breaker ComPact NS800H,  
70 kA at 415 VAC, Micrologic 2.0  
trip unit, 800 A, fixed, 3 poles 3d

33467

## 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                                      | 3P   |
| Protected poles description                          | 3D   |
| (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 2.0   |
| Trip unit technology                                 | Electronic   |
| Trip unit protection functions                       | LI   |
| 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   |
| [Ics] rated service short-circuit breaking capacity | 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 |

50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2  
 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>I : for instantaneous short-circuit 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>Instantaneous protection pick-up adjustment type li</b>       | Adjustable   |
| <b>[li] instantaneous protection pick-up adjustment range</b>    | 1.5...10 x Ir  |
| <b>Earth-leakage protection</b>                                  | Without  |
| <b>Zone selective interlocking ZSI</b>                           | Without  |
| <b>Auxiliary contact composition</b>                             | 1 NO/NC  |
| <b>Local signalling</b>  | 4 LEDs (red) for fault indication<br>1 LED (yellow) for overload   |
| <b>Width (W)</b>   | 210 mm   |
| <b>Height (H)</b>  | 327 mm   |
| <b>Depth (D)</b>   | 147 mm   |
| <b>Net weight</b>  | 14 kg  |

## Environment

|  |                              |
|--|------------------------------|
| <b>Standards</b>                             | EN/IEC 60947-2               |
| <b>Product certifications</b>                | ASEFA<br>ASTA                |
| <b>Pollution degree</b>                      | 3 conforming to IEC 60947    |
| <b>IP degree of protection</b>               | IP40 conforming to IEC 60529 |
| <b>IK degree of protection</b>               | IK07 conforming to EN 50102  |
| <b>Ambient air temperature for operation</b> | -25...70 °C                  |
| <b>Ambient air temperature for storage</b>   | -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 Weight             | 13.154 kg |
| Package 1 Height             | 30 cm     |
| Package 1 width              | 40 cm     |
| Package 1 Length             | 60 cm     |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 1         |
| Package 2 Weight             | 13.92 kg  |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 40 cm     |
| Package 2 Length             | 60 cm     |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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