



### Main

|                             |                               |
|-----------------------------|-------------------------------|
| Range                       | Compact                       |
| Range of product            | NS630b...1600                 |
| Product or component type   | Circuit breaker               |
| Product name                | Compact NS                    |
| Device short name           | Compact NS1000H               |
| Circuit breaker name        | Compact NS1000H               |
| Device application          | Distribution                  |
| Poles description           | 4P                            |
| Protected poles description | 4t                            |
| Neutral position            | Left                          |
| Network type                | AC                            |
| Breaking capacity code      | H                             |
| Suitability for isolation   | Yes conforming to IEC 60947-2 |
| Utilisation category        | Category B                    |
| Trip unit name              | Micrologic 5.0 E              |
| Trip unit technology        | Electronic                    |
| Trip unit rating            | 1000 A ( 50 °C )              |

### Complementary

|  |  |
|--|--|
| Network frequency                      | 50/60 Hz   |
| Control type                           | Rotary handle<br>Toggle                                  |
| Mounting mode                          | Fixed  |
| Mounting support                       | Backplate  |
| Upside connection                      | Front  |
| Downside connection                    | Front  |
| [In] rated current                     | 1000 A ( 50 °C )   |
| [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                           |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz conforming to IEC 60947-2              |
| Circuit breaker CT rating              | 1000 A   |
| Breaking capacity                      | 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |

70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2  
 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2  
 42 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2  
 50 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2

|  |   |
|--|---|
| [Ics] rated service breaking capacity                  | Ics 52 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 31 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 37 kA 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 48 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 52 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Auxiliary contact composition                          | 1 NO/NC   |
| Mechanical durability                                  | 10000 cycles  |
| Electrical durability                                  | 2000 cycles IEC 60947-2 690 V In AC 50/60 Hz<br>4000 cycles IEC 60947-2 690 V In/2 AC 50/60 Hz<br>5000 cycles IEC 60947-2 440 V In AC 50/60 Hz<br>6000 cycles IEC 60947-2 440 V In/2 AC 50/60 Hz  |
| Local signalling                                       | Positive contact indication   |
| [Icw] rated short-time withstand current               | 19.2 kA   |
| Neutral protection setting                             | Ir  |
| Trip unit protection functions                         | LSI   |
| Protection type  | Overload protection (long time)<br>Instantaneous short-circuit protection<br>Short time short-circuit protection  |
| Long time pick-up adjustment type Ir                   | Adjustable  |
| Long time pick-up adjustment range                     | 0.4...1 x In  |
| Long time delay adjustment type                        | Adjustable 9 settings   |
| [Tr] long-time delay adjustment range                  | 0.5...24 s 6 x Ir<br>0.7...16.6 s 7.2 x Ir<br>12.5...600 s 1.5 x Ir   |
| Thermal memory   | 20 mn   |
| Short-time pick-up adjustment type I <sub>sd</sub>     | Adjustable 9 settings   |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 1.5...10 x Ir   |
| Short-time delay adjustment type                       | Adjustable  |
| [T <sub>sd</sub> ] short-time delay adjustment range   | 0.02...0.5 s  |
| [T <sub>sd</sub> ] short-time delay adjustment range   | 0.1...0.4 s I <sup>2</sup> t=on<br>0...0.4 s I <sup>2</sup> t=off   |
| Instantaneous pick-up adjustment type I <sub>i</sub>   | Adjustable  |
| Instantaneous pick-up adjustment range                 | 2...15 x In<br>Off  |
| Integral instant protection                            | 40 kA   |
| Zone selective interlocking ZSI                        | With  |
| Display type   | LCD display   |
| Type of measurement                                    | Energy meter  |
| Height   | 327 mm  |
| Width  | 280 mm  |
| Depth  | 147 mm  |
| Compatibility code                                     | NS1000  |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | IEC 60947-2                  |
| Product certifications                | ASEFA<br>ASTA                |
| Power losses                          | 22 W                         |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to EN 50102  |
| Pollution degree                      | 3 conforming to IEC 60947    |
| Ambient air temperature for operation | -25...70 °C                  |

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|                                     |             |
|-------------------------------------|-------------|
| Ambient air temperature for storage | -50...85 °C |
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### Contractual warranty

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| Warranty period | 18 months |
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