



## Main

|                             |                               |
|-----------------------------|-------------------------------|
| Range                       | Compact                       |
| Range of product            | NS630b...1600                 |
| Product or component type   | Circuit breaker               |
| Device short name           | Compact NS1250N               |
| Device application          | Distribution                  |
| Poles description           | 4P                            |
| Protected poles description | 4t                            |
| Neutral position            | Left                          |
| Network type                | AC                            |
| Breaking capacity code      | N                             |
| Suitability for isolation   | Yes conforming to IEC 60947-2 |
| Utilisation category        | Category B                    |
| Trip unit name              | Micrologic 5.0                |
| Trip unit technology        | Electronic                    |
| Trip unit rating            | 1250 A at 50 °C               |

## Complementary

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Network frequency              | 50/60 Hz                                    |
| Control type                   | Toggle<br>Rotary handle                     |
| Mounting mode                  | Fixed                                       |
| Mounting support               | Backplate                                   |
| Upside connection              | Front                                       |
| Downside connection            | Front                                       |
| (In) rated current up to 65 °C | 1250 A at 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                 | 1250 A                                                                                                                                                                                                                                                                                                                   |
| Breaking capacity                         | 30 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 440 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>40 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service 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<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                     |
| Auxiliary contact composition             | 1 NO/NC                                                                                                                                                                                                                                                                                                                  |
| Mechanical durability                     | 10000 cycles                                                                                                                                                                                                                                                                                                             |
| Electrical durability                     | 2000 cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2<br>3000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>5000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2                                                                 |
| 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                           | Instantaneous short-circuit protection<br>Overload protection (long time)<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     | 0.7...16.6 s 7.2 x Ir<br>12.5...600 s 1.5 x Ir<br>0.5...24 s 6 x Ir                                                                                                                                                                                                                                                      |
| Thermal memory                            | 20 mn                                                                                                                                                                                                                                                                                                                    |
| Short-time pick-up adjustment type Isd    | Adjustable 9 settings                                                                                                                                                                                                                                                                                                    |
| [Isd] short-time pick-up adjustment range | 1.5...10 x Ir                                                                                                                                                                                                                                                                                                            |
| Short-time delay adjustment type          | Adjustable                                                                                                                                                                                                                                                                                                               |
| [Tsd] short-time delay adjustment range   | 0.1...0.4 s I²t=on<br>0...0.4 s I²t=off                                                                                                                                                                                                                                                                                  |
| [Tsd] short-time delay adjustment range   | 0.02...0.5 s                                                                                                                                                                                                                                                                                                             |
| Instantaneous pick-up adjustment type Ii  | Adjustable                                                                                                                                                                                                                                                                                                               |
| Instantaneous pick-up adjustment range    | Off<br>2...15 x In                                                                                                                                                                                                                                                                                                       |
| Integrated instantaneous protection       | 40 kA                                                                                                                                                                                                                                                                                                                    |
| Zone selective interlocking ZSI           | With                                                                                                                                                                                                                                                                                                                     |
| Height                                    | 327 mm                                                                                                                                                                                                                                                                                                                   |
| Width                                     | 280 mm                                                                                                                                                                                                                                                                                                                   |
| Depth                                     | 147 mm                                                                                                                                                                                                                                                                                                                   |

## Environment

|                         |                              |
|-------------------------|------------------------------|
| Standards               | IEC 60947-2                  |
| Product certifications  | ASEFA<br>ASTA                |
| Power losses            | 44 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 |
| Ambient air temperature for storage   | -50...85 °C |

### 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       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | No need of specific recycling operations                                                                                    |
| 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 |
|----------|-----------|