



## Main

|                             |                               |
|-----------------------------|-------------------------------|
| Range                       | Compact                       |
| Range of product            | NS630b...1600                 |
| Product or component type   | Circuit breaker               |
| Device short name           | Compact NS630bN               |
| Device application          | Distribution                  |
| Poles description           | 3P                            |
| Protected poles description | 3t                            |
| Network type                | AC                            |
| Breaking capacity code      | N                             |
| Suitability for isolation   | Yes conforming to IEC 60947-2 |
| Utilisation category        | Category B                    |
| Trip unit name              | Micrologic 2.0                |
| Trip unit technology        | Electronic                    |
| Trip unit rating            | 630 A at 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 up to 65 °C         | 630 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                | 630 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>4000 cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>5000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>6000 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                                                                                                                                                                                                                                                                                                                  |
| Trip unit protection functions           | LI                                                                                                                                                                                                                                                                                                                       |
| Protection type                          | Instantaneous short-circuit protection<br>Overload protection (long time)                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                                                                    |
| Instantaneous pick-up adjustment type li | Adjustable                                                                                                                                                                                                                                                                                                               |
| Instantaneous pick-up adjustment range   | 1.5...10 x Ir                                                                                                                                                                                                                                                                                                            |
| Integrated instantaneous protection      | 40 kA                                                                                                                                                                                                                                                                                                                    |
| Height                                   | 327 mm                                                                                                                                                                                                                                                                                                                   |
| Width                                    | 210 mm                                                                                                                                                                                                                                                                                                                   |
| Depth                                    | 147 mm                                                                                                                                                                                                                                                                                                                   |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | IEC 60947-2                  |
| Product certifications                | ASEFA<br>ASTA                |
| Power losses                          | 10 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>           |

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 |
|----------|-----------|