



## Main

|                           |                               |
|---------------------------|-------------------------------|
| Range of product          | NS630b...1600                 |
| Product or component type | Basic frame                   |
| Device short name         | Compact NS800N                |
| Device application        | Distribution                  |
| Circuit breaker name      | Compact NS800N                |
| Poles description         | 4P                            |
| Neutral position          | Left                          |
| Network type              | AC                            |
| Breaking capacity code    | N                             |
| Suitability for isolation | Yes conforming to IEC 60947-2 |
| Utilisation category      | Category B                    |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                           |
| Control type                           | Motor mechanism                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mounting mode                          | Fixed                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting support                       | Backplate                                                                                                                                                                                                                                                                                                                                                                                                          |
| Upside connection                      | Front                                                                                                                                                                                                                                                                                                                                                                                                              |
| Downside connection                    | Front                                                                                                                                                                                                                                                                                                                                                                                                              |
| [In] rated current                     | 800 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              | 800 A                                                                                                                                                                                                                                                                                                                                                                                                              |
| Breaking capacity                      | Icu 30 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 40 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2                                                                                           |
| [Ics] rated service breaking capacity  | Ics 22 kA 660/690 V AC 50/60 Hz electrical operation conforming to IEC 60947-2<br>Ics 37 kA 220/240 V AC 50/60 Hz electrical operation conforming to IEC 60947-2<br>Ics 37 kA 380/415 V AC 50/60 Hz electrical operation conforming to IEC 60947-2<br>Ics 37 kA 440 V AC 50/60 Hz electrical operation conforming to IEC 60947-2<br>Ics 30 kA 500/525 V AC 50/60 Hz electrical operation conforming to IEC 60947-2 |

|                                          |                                                                                                                                                                                                                                                          |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection type                          | Without protection                                                                                                                                                                                                                                       |
| Mechanical durability                    | 10000 cycles conforming to IEC 60947-2                                                                                                                                                                                                                   |
| 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 |
| Connection pitch                         | 70 mm                                                                                                                                                                                                                                                    |
| [Icw] rated short-time withstand current | 19.2 kA ( 1 s ) conforming to IEC 60947-2                                                                                                                                                                                                                |
| Integral instant protection              | 40 kA                                                                                                                                                                                                                                                    |
| Height                                   | 327 mm                                                                                                                                                                                                                                                   |
| Width                                    | 280 mm                                                                                                                                                                                                                                                   |
| Depth                                    | 147 mm                                                                                                                                                                                                                                                   |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | IEC 60947-2                  |
| Product certifications                | ASTA<br>ASEFA<br>LCIE        |
| Power losses                          | 15 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                  |

## Contractual warranty

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