

# Product datasheet

Specifications



circuit breaker basic frame,  
ComPact NS 800N, 50 kA at 415  
VAC, 800 A, fixed, electrically  
operated, without trip unit, 3 P

Local distributor code: 383446857 33280

## Main

|                                                      |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                  |
| Range of product                                     | ComPact NS630b...1600                                                                                                                                                                                                                                                                                                    |
| Device short name                                    | Compact NS800N                                                                                                                                                                                                                                                                                                           |
| Product or component type                            | Basic frame                                                                                                                                                                                                                                                                                                              |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                             |
| Number of poles                                      | 3P                                                                                                                                                                                                                                                                                                                       |
| [In] rated current                                   | 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 | 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>50 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 |
| Performance level                                    | N 50 kA 415 V AC                                                                                                                                                                                                                                                                                                         |
| Control type                                         | Motor mechanism                                                                                                                                                                                                                                                                                                          |
| Mounting mode                                        | Fixed                                                                                                                                                                                                                                                                                                                    |

## Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                       | 1000 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 500/525 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation)<br>22 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation)<br>37 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation)<br>37 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation)<br>37 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 (electrical operation) |
| [Icw] rated short-time withstand current            | 19.2 kA 1 s conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                   |
| Integral instant protection                         | 40 kA                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                              |

|                  |                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | 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 |
| Power losses     | 15 W                                                                                                                                                                                       |
| Mounting support | Backplate                                                                                                                                                                                  |
| Connection pitch | 70 mm                                                                                                                                                                                      |
| Protection type  | Without protection                                                                                                                                                                         |
| Height (H)       | 327 mm                                                                                                                                                                                     |
| Width (W)        | 210 mm                                                                                                                                                                                     |
| Depth (D)        | 147 mm                                                                                                                                                                                     |

### Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | IEC 60947-2                  |
| Product certifications                | ASEFA<br>LCIE<br>ASTA        |
| Pollution degree                      | 3 conforming to IEC 60947    |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to EN 50102  |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -50...85 °C                  |

### Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 20.708 kg |
| Package 1 Height             | 25 cm     |
| Package 1 width              | 40 cm     |
| Package 1 Length             | 40 cm     |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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 |
| PVC free                   | Yes                                                                                                                         |

### Contractual warranty

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