



## Main

|                           |                            |
|---------------------------|----------------------------|
| Range                     | Compact                    |
| Product name              | Compact NSXm               |
| Device short name         | NSXm 80N                   |
| Product or component type | Circuit breaker            |
| Device application        | Distribution<br>Protection |

## Complementary

|                                        |                                                                                                                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current                     | 80 A                                                                                                                                                                                         |
| Poles description                      | 4P 4d                                                                                                                                                                                        |
| Neutral position                       | Left                                                                                                                                                                                         |
| Control type                           | Toggle                                                                                                                                                                                       |
| Mounting mode                          | By screws (plate)<br>Clip-on (DIN rail)                                                                                                                                                      |
| Network type                           | AC                                                                                                                                                                                           |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                     |
| Breaking capacity code                 | N 50 kA 415 V AC                                                                                                                                                                             |
| [Icu] rated ultimate breaking capacity | Icu 90 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 |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                  |
| [Ics] rated service breaking capacity  | 90 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             |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947-2                                                                                                                                                                             |
| [Ui] rated insulation voltage          | 800 V conforming to IEC 60947-2                                                                                                                                                              |
| Trip unit technology                   | Thermal-magnetic                                                                                                                                                                             |
| Trip unit name                         | TM-D                                                                                                                                                                                         |
| Trip unit protection functions         | LI                                                                                                                                                                                           |

|                                                    |                                                                                                                                                               |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trip unit rating                                   | 80 A at 40 °C                                                                                                                                                 |
| Protection type                                    | Overload protection (thermal)<br>Short-circuit protection (magnetic)                                                                                          |
| Long time pick-up adjustment range                 | 0.7...1 x I <sub>n</sub>                                                                                                                                      |
| Short-time pick-up adjustment type I <sub>sd</sub> | Fixed                                                                                                                                                         |
| Short-time delay adjustment type                   | Fixed                                                                                                                                                         |
| Magnetic hold current                              | 800 A                                                                                                                                                         |
| Magnetic tripping current                          | 1200 A                                                                                                                                                        |
| Suitability for isolation                          | Yes conforming to IEC 60947-2                                                                                                                                 |
| Utilisation category                               | Category A                                                                                                                                                    |
| 9 mm pitches                                       | 12 module                                                                                                                                                     |
| Connection pitch                                   | 35 mm with spreaders<br>27 mm without spreaders                                                                                                               |
| Connections - terminals                            | 1 Everlink lug wire size 2.5...95 mm <sup>2</sup> , rigid or stranded aluminium/copper<br>1 Everlink lug wire size 2.5...70 mm <sup>2</sup> , flexible copper |
| Tightening torque                                  | 5 N.m for 2.5...10 mm <sup>2</sup><br>9 N.m for 16...95 mm <sup>2</sup>                                                                                       |
| Local signalling                                   | Flag (green)presence of auxiliary contacts:                                                                                                                   |
| Number of slots                                    | 1 slot(s) for auxiliary switch OF<br>1 slot(s) for alarm switch SD<br>1 slot(s) for voltage release MN or MX                                                  |
| Power wire stripping length                        | 20 mm                                                                                                                                                         |

## Environment

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| Quality labels                        | CE                                                                              |
| Standards                             | EN/IEC 60947                                                                    |
| Product certifications                | CCC<br>EAC<br>Marine                                                            |
| Colour                                | Grey (RAL 7016)                                                                 |
| IP degree of protection               | Front cover: IP40 conforming to IEC 60529                                       |
| IK degree of protection               | IK07 conforming to IEC 62262                                                    |
| Pollution degree                      | 3 conforming to IEC 60947-1                                                     |
| Ambient air temperature for operation | -25...70 °C                                                                     |
| Ambient air temperature for storage   | -40...85 °C                                                                     |
| Operating altitude                    | 2000 m without derating<br>5000 m with derating                                 |
| Mechanical durability                 | 20000 cycles conforming to IEC 947-1 Annex K ed 5.2 I <sub>n</sub>              |
| Electrical durability                 | 10000 cycles conforming to IEC 947-1 Annex F ed 5.2 for I <sub>n</sub> at 440 V |
| Height                                | 137 mm                                                                          |
| Width                                 | 108 mm                                                                          |
| Depth                                 | 80 mm                                                                           |
| Product weight                        | 1.42 kg                                                                         |
| Quantity per set                      | Set of 1                                                                        |

## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| 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 |
|----------|-----------|