



## Main

|  |  |
|--|--|
| Range  | ComPact  |
| Product name   | ComPact NSXm   |
| Range of product                                     | ComPact NSXm   |
| Device short name                                    | NSXm 80N   |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Distribution Protection  |
| Number of poles                                      | 3P   |
| Protected poles description                          | 3d   |
| [In] rated current                                   | 80 A at 40 °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 A   |
| [Icu] rated ultimate short-circuit breaking capacity | 90 KA Icu at 220...240 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 |
| Performance level                                    | N 50 kA 415 V AC   |
| Trip unit name                                       | TM-D   |
| Trip unit technology                                 | Thermal-magnetic   |
| Trip unit protection functions                       | LI   |
| Control type   | Toggle   |
| Circuit breaker mounting mode                        | By screws<br>Clip-on   |

## Complementary

|   |  |
|---|--|
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz  |
| [Uimp] rated impulse withstand voltage              | 8 kV   |
| [Ics] rated service short-circuit 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 |
| Mechanical durability                               | 20000 cycles   |
| Electrical durability                               | 10000 Cycles at 440 V In<br>20000 Cycles at 440 V In/2<br>5000 Cycles at 690 V In<br>10000 cycles at 690 V In/2  |
| Mounting support                                    | Plate<br>DIN rail  |
| Connection 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                    |
| Connection pitch                                    | 35 Mm with spreaders<br>27 mm without spreaders  |
| 9 mm pitches  | 9 module   |

|   |  |
|---|--|
| Protection type   | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                         |
| Trip unit rating  | 80 A at 40 °C  |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable   |
| [Ir] long-time protection pick-up adjustment range        | 0.7...1 x In   |
| Long-time protection delay adjustment type tr             | Fixed  |
| [Im] magnetic protection pick-up range                    | 1000 A   |
| Earth-leakage protection                                  | Without  |
| Number of slots for electrical auxiliaries                | 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 |
| Width (W)   | 81 mm  |
| Height (H)  | 137 mm   |
| Depth (D)   | 80 mm  |
| Net weight  | 1.06 kg  |
| Colour  | Grey (RAL 7016)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947   |
| Product certifications                | CCC<br>EAC<br>Marine                                       |
| Pollution degree                      | 3 conforming to IEC 60664-1                                |
| IP degree of protection               | IP40 conforming to IEC 60529                               |
| IK degree of protection               | IK07 conforming to IEC 62262                               |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -50...85 °C  |
| Relative humidity                     | 0...95 %   |
| Operating altitude                    | 0...2000 m without derating<br>2000...5000 m with derating |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 1.3 kg  |
| Package 1 Height             | 9 cm    |
| Package 1 width              | 12.5 cm |
| Package 1 Length             | 22 cm   |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <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>        |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |