



## Main

|                           |                            |
|---------------------------|----------------------------|
| Range                     | Compact                    |
| Product name              | Compact NSXm               |
| Device short name         | NSXm 80B                   |
| 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 for plate<br>Clip-on for DIN rail   |
| Network type                           | AC  |
| Network frequency                      | 50/60 Hz  |
| Performance level                      | B 25 kA 415 V AC  |
| [Icu] rated ultimate breaking capacity | 50 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2<br>25 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2<br>20 kA at 440 V AC 50/60 Hz according to IEC 60947-2 |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz according to IEC 60947-2  |
| [Ics] rated service breaking capacity  | 50 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2<br>25 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2<br>20 kA at 440 V AC 50/60 Hz according to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV according to IEC 60947-2   |
| [Ui] rated insulation voltage          | 800 V according 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 according 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 2.5...70 mm <sup>2</sup> (flexible) conductor :copper<br>1 Everlink lug 2.5...95 mm <sup>2</sup> (rigid or stranded) conductor :aluminium/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                                   | Green flag for 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               | IP40 (front cover) according to IEC 60529                                      |
| IK degree of protection               | IK07 according to IEC 62262  |
| Pollution degree                      | 3 according to IEC 60947-1   |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -40...85 °C  |
| Operating altitude                    | 5000 m with derating<br>2000 m without derating                                |
| Mechanical durability                 | 20000 cycles according to IEC 947-1 Annex K ed 5.2 for I <sub>n</sub>          |
| Electrical durability                 | 10000 cycles according 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   |
| RoHS (date code: YYWW)           | Compliant - since 1649 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product environmental</a>  |
| Product end of life instructions | Need no specific recycling operations   |