

# C11N44V100B

Circuit breaker, ComPacT NSXm 160N,  
50kA/415VAC, 4 poles, MicroLogic 4.1 trip unit  
100A, lugs/busbars



## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                                 |
| Product name                                         | ComPacT NSXm new generation                                                                                                                                                                                                                                                                                                                                                            |
| Range of product                                     | ComPacT NSXm new generation                                                                                                                                                                                                                                                                                                                                                            |
| Device short name                                    | NSXm 160N                                                                                                                                                                                                                                                                                                                                                                              |
| Product or component type                            | Earth leakage circuit breaker                                                                                                                                                                                                                                                                                                                                                          |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                           |
| Poles description                                    | 4P                                                                                                                                                                                                                                                                                                                                                                                     |
| Protected poles description                          | 4D                                                                                                                                                                                                                                                                                                                                                                                     |
| Neutral position                                     | Left                                                                                                                                                                                                                                                                                                                                                                                   |
| [In] rated current                                   | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                         |
| [Ue] rated operational voltage                       | 440 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                      |
| Network type                                         | AC                                                                                                                                                                                                                                                                                                                                                                                     |
| Network frequency                                    | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                               |
| Suitability for isolation                            | Yes conforming to 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<br>25 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>15 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660...690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | N 50 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                       |
| Trip unit name                                       | MicroLogic 4.1                                                                                                                                                                                                                                                                                                                                                                         |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                                                                                                                                             |
| Trip unit protection functions                       | LSolR                                                                                                                                                                                                                                                                                                                                                                                  |
| Control type                                         | Toggle                                                                                                                                                                                                                                                                                                                                                                                 |
| Circuit breaker mounting mode                        | Fixed                                                                                                                                                                                                                                                                                                                                                                                  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

|                                                             |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                               | 500 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<br>25 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>15 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>2.5 kA at 660...690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                                       | 20000 cycles                                                                                                                                                                                                                                                                                                                                                    |
| Electrical durability                                       | 20000 Cycles at 440 V In/2<br>10000 Cycles at 440 V In<br>10000 Cycles at 690 V In/2<br>5000 cycles at 690 V In                                                                                                                                                                                                                                                 |
| Power dissipation per pole                                  | 4.77 W                                                                                                                                                                                                                                                                                                                                                          |
| Mounting support                                            | Backplate                                                                                                                                                                                                                                                                                                                                                       |
| Mounting position                                           | Horizontal and vertical<br>Flat on the back                                                                                                                                                                                                                                                                                                                     |
| Upside connection                                           | Front                                                                                                                                                                                                                                                                                                                                                           |
| Downside connection                                         | Front                                                                                                                                                                                                                                                                                                                                                           |
| Connection terminals                                        | Compression lug/busbar                                                                                                                                                                                                                                                                                                                                          |
| Connection pitch                                            | 35 Mm with spreaders<br>27 mm without spreaders                                                                                                                                                                                                                                                                                                                 |
| 9 mm pitches                                                | 12 module                                                                                                                                                                                                                                                                                                                                                       |
| Trip unit rating                                            | 100 A at 40 °C                                                                                                                                                                                                                                                                                                                                                  |
| Long-time pick-up adjustment type Ir (thermal protection)   | Adjustable 9 settings                                                                                                                                                                                                                                                                                                                                           |
| [Ir] long-time protection pick-up adjustment range          | 40...100 A                                                                                                                                                                                                                                                                                                                                                      |
| Long-time protection delay adjustment type tr               | Fixed                                                                                                                                                                                                                                                                                                                                                           |
| [tr] long-time protection delay adjustment range            | 200 S at 1.5 x Ir<br>8 S at 6 x Ir<br>5 s at 7.2 x Ir                                                                                                                                                                                                                                                                                                           |
| Neutral protection settings                                 | 1 x Ir (4D)                                                                                                                                                                                                                                                                                                                                                     |
| Thermal memory                                              | 20 minutes before and after tripping                                                                                                                                                                                                                                                                                                                            |
| Short-time protection pick-up adjustment type Isd           | Adjustable 9 settings                                                                                                                                                                                                                                                                                                                                           |
| [Isd] Short-time protection pick-up adjustment range        | 1.5...10 x Ir                                                                                                                                                                                                                                                                                                                                                   |
| Short-time protection delay adjustment type tsd             | Fixed                                                                                                                                                                                                                                                                                                                                                           |
| Instantaneous protection pick-up adjustment type li         | Fixed                                                                                                                                                                                                                                                                                                                                                           |
| [li] instantaneous protection pick-up adjustment range      | 1500 A                                                                                                                                                                                                                                                                                                                                                          |
| Earth-leakage protection                                    | Integrated                                                                                                                                                                                                                                                                                                                                                      |
| Earth-leakage protection class                              | Class A<br>Class AC                                                                                                                                                                                                                                                                                                                                             |
| Earth-leakage protection sensitivity adjustment type IΔn    | Adjustable                                                                                                                                                                                                                                                                                                                                                      |
| [IΔn] earth-leakage protection sensitivity adjustment range | 30 MA<br>100 MA<br>300 MA<br>500 MA<br>1 A<br>3 A<br>5 A                                                                                                                                                                                                                                                                                                        |
| Earth-leakage sensitivity                                   | 30 MA for class A<br>100 MA for class A<br>300 MA for class A<br>500 MA for class A<br>1 A for class A<br>30 MA for class AC<br>100 MA for class AC<br>300 MA for class AC<br>500 MA for class AC<br>1 A for class AC<br>3 A for class AC<br>5 A for class AC                                                                                                   |

|                                                                     |                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Earth-leakage protection time delay adjustment type $\Delta t$      | Adjustable                                                                                                   |
| [ $\Delta t$ ] Earth-leakage protection time delay adjustment range | 0 Ms<br>60 Ms<br>150 Ms<br>500 Ms<br>1000 ms                                                                 |
| 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 |
| Local signalling                                                    | Flag (green) for presence of auxiliary contacts                                                              |
| Width (W)                                                           | 108 mm                                                                                                       |
| Height (H)                                                          | 144 mm                                                                                                       |
| Depth (D)                                                           | 80 mm                                                                                                        |
| Net weight                                                          | 1.63 kg                                                                                                      |
| Colour                                                              | Grey (RAL 7016)                                                                                              |

## Environment

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Standards                             | EN/IEC 60947                                    |
| 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   | -40...85 °C                                     |
| Relative humidity                     | 0...95 %                                        |
| Operating altitude                    | 2000 m without derating<br>5000 m with derating |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 15.0 cm |
| Package 1 Width              | 13.0 cm |
| Package 1 Length             | 18.5 cm |
| Package 1 Weight             | 1.65 kg |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 4       |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 6.98 kg |

## Offer Sustainability

|                             |                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                             |
| REACH Regulation            |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive           | Compliant with Exemptions                                                                                                         |
| Mercury free                | Yes                                                                                                                               |
| China RoHS Regulation       |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information  |  <a href="#">Yes</a>                           |
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile         |  <a href="#">End Of Life Information</a>       |
| Halogen content performance | Halogen free plastic parts product                                                                                                |