

# Product data sheet

## Characteristics

### LV426413

circuit breaker Compact NSXm 40A 4P 50kA at 380/415V(IEC) EverLink lug



#### Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                                                                                |
| Product name                                         | ComPact NSXm                                                                                                                                                                                                                                                                                                                                                                           |
| Range of product                                     | ComPact NSXm                                                                                                                                                                                                                                                                                                                                                                           |
| Device short name                                    | NSXm 40N                                                                                                                                                                                                                                                                                                                                                                               |
| Product or component type                            | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                        |
| Device application                                   | Distribution<br>Protection                                                                                                                                                                                                                                                                                                                                                             |
| Number of poles                                      | 4P                                                                                                                                                                                                                                                                                                                                                                                     |
| Protected poles description                          | 3D                                                                                                                                                                                                                                                                                                                                                                                     |
| Neutral position                                     | Left                                                                                                                                                                                                                                                                                                                                                                                   |
| [In] rated current                                   | 40 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<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 600...690 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                                                                                                                                                                                                                                                                                                                                                                   |

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## 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<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                                     | 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                                              | 12 module                                                                                                                                                                                                                                                                                                                                                       |
| Protection type                                           | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                                                                                                                                                                                                                                                                            |
| Trip unit rating                                          | 40 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                    | 600 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)                                                 | 108 mm                                                                                                                                                                                                                                                                                                                                                          |
| Height (H)                                                | 137 mm                                                                                                                                                                                                                                                                                                                                                          |
| Depth (D)                                                 | 80 mm                                                                                                                                                                                                                                                                                                                                                           |
| Net weight                                                | 1.42 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             | 1.6 kg |
| Package 1 Height             | 12 cm  |
| Package 1 width              | 12 cm  |

|                              |          |
|------------------------------|----------|
| Package 1 Length             | 22 cm    |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 6        |
| Package 2 Weight             | 10.19 kg |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 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 |