

# Product data sheet

Specifications



circuit breaker ComPact NSXm F (36 kA at 415 VAC), 3P 3d, 50 A rating TMD trip unit, EverLink connectors

LV426304

⚠ Discontinued

⚠ Discontinued on: 09 March 2023

⚠ End-of-service on: 26 October 2023

## Main

|  |  |
|--|--|
| Range  | ComPact  |
| Product name   | ComPact NSXm   |
| Range of product                                     | ComPact NSXm   |
| Device short name                                    | NSXm 50F   |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Distribution<br>Protection   |
| Number of poles                                      | 3P   |
| Protected poles description                          | 3D   |
| [In] rated current                                   | 50 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 | 85 kA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | F 36 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 |
|-------------------------------|-------------------|

|  |  |
|--|--|
| <b>[Uimp] rated impulse withstand voltage</b>                    | 8 kV   |
| <b>[Ics] rated service short-circuit breaking capacity</b>       | 10 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical durability</b>                                     | 20000 cycles   |
| <b>Electrical durability</b>                                     | 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  |
| <b>Mounting support</b>  | Plate<br>DIN rail  |
| <b>Connection terminals</b>                                      | 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  |
| <b>Connection pitch</b>  | 35 mm with spreaders<br>27 mm without spreaders  |
| <b>9 mm pitches</b>  | 9 module   |
| <b>Protection type</b>   | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)   |
| <b>Trip unit rating</b>  | 50 A at 40 °C  |
| <b>Long-time pick-up adjustment type Ir (thermal protection)</b> | Adjustable   |
| <b>[Ir] long-time protection pick-up adjustment range</b>        | 0.7...1 x In   |
| <b>Long-time protection delay adjustment type tr</b>             | Fixed  |
| <b>[Im] magnetic protection pick-up range</b>                    | 600 A  |
| <b>Earth-leakage protection</b>                                  | Without  |
| <b>Number of slots for electrical auxiliaries</b>                | 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   |
| <b>Width (W)</b>   | 81 mm  |
| <b>Height (H)</b>  | 137 mm   |
| <b>Depth (D)</b>   | 80 mm  |
| <b>Net weight</b>  | 1.06 kg  |
| <b>Colour</b>  | Grey (RAL 7016)  |

## Environment

|  |  |
|--|--|
| <b>Standards</b>                             | EN/IEC 60947   |
| <b>Product certifications</b>                | CCC<br>EAC<br>Marine                                       |
| <b>Pollution degree</b>                      | 3 conforming to IEC 60664-1                                |
| <b>IP degree of protection</b>               | IP40 conforming to IEC 60529                               |
| <b>IK degree of protection</b>               | IK07 conforming to IEC 62262                               |
| <b>Ambient air temperature for operation</b> | -25...70 °C  |
| <b>Ambient air temperature for storage</b>   | -50...85 °C  |
| <b>Relative humidity</b>                     | 0...95 %   |
| <b>Operating altitude</b>                    | 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 Height             | 9.000 cm   |
| Package 1 Width              | 12.000 cm  |
| Package 1 Length             | 21.500 cm  |
| Package 1 Weight             | 1.208 kg   |
| Unit Type of Package 2       | S03        |
| Number of Units in Package 2 | 9          |
| Package 2 Height             | 30.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 11.257 kg  |
| Unit Type of Package 3       | P12        |
| Number of Units in Package 3 | 72         |
| Package 3 Height             | 45.000 cm  |
| Package 3 Width              | 80.000 cm  |
| Package 3 Length             | 120.000 cm |
| Package 3 Weight             | 102.056 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| RoHS exemption information | Yes   |
| 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 |

## Recommended replacement(s)

LV426304 is replaced by:

1x



Circuit breaker, ComPact NSXm 63F, 36kA/415VAC, 3 poles, TMD trip unit 50A, EverLink lugs  
C11F3TM050L