

# LV426762

circuit breaker Compact NSXM B (25 kA at 415 VAC), 3P, 100 A rating Micrologic Vigi 4.1 trip unit, compression lugs and busbar connectors



## Main

|  |  |
|--|--|
| Range  | ComPact  |
| Product name   | ComPact NSXm   |
| Range of product                                     | ComPact NSXm   |
| Device short name                                    | NSXm 100B  |
| Product or component type                            | Earth leakage circuit breaker  |
| Device application                                   | Distribution<br>Protection   |
| Number of poles                                      | 3P   |
| Protected poles description                          | 3d   |
| [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 EN/IEC 60947-2   |
| Utilisation category                                 | Category A   |
| [Icu] rated ultimate short-circuit breaking capacity | 50 KA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | B 25 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                        | By screws<br>Clip-on   |

## 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 | 50 KA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 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   |
| Mounting support                                    | Plate<br>DIN rail  |
| Connection terminals                                | Compression lug/busbar   |
| Connection pitch                                    | 35 Mm with spreaders<br>27 mm without spreaders  |
| 9 mm pitches  | 9 module   |

|   |   |
|---|---|
| Protection type   | L : for overload protection (thermal)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection<br>R : for earth-leakage protection  |
| Trip unit rating  | 100 A at 40 °C  |
| Long-time pick-up adjustment type I <sub>r</sub> (thermal protection) | Adjustable 9 settings   |
| [I <sub>r</sub> ] long-time protection pick-up adjustment range       | 40...100 A  |
| Long-time protection delay adjustment type t <sub>r</sub>             | Fixed   |
| [t <sub>r</sub> ] long-time protection delay adjustment range         | 5 S at 7.2 x I <sub>r</sub><br>8 S at 6 x I <sub>r</sub><br>200 s at 1.5 x I <sub>r</sub>   |
| Thermal memory  | 20 minutes before and after tripping  |
| Short-time protection pick-up adjustment type I <sub>sd</sub>         | Adjustable 9 settings   |
| [I <sub>sd</sub> ] Short-time protection pick-up adjustment range     | 1.5...10 x I <sub>r</sub>   |
| Short-time protection delay adjustment type t <sub>sd</sub>           | Fixed   |
| [t <sub>sd</sub> ] Short-time protection delay adjustment range       | 0.02 s  |
| Instantaneous protection pick-up adjustment type I <sub>i</sub>       | Fixed   |
| [I <sub>i</sub> ] instantaneous protection pick-up adjustment range   | 1500 A  |
| Earth-leakage protection  | Integrated  |
| Earth-leakage protection sensivity adjustment type IΔn                | Adjustable  |
| [IΔn] earth-leakage protection sensitivity adjustment range           | 0.03...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>1000 MA 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>1000 MA for class AC<br>3000 MA for class AC<br>5000 mA for class AC |
| Earth-leakage protection time delay adjustment type Δt                | Adjustable  |
| [Δt] Earth-leakage protection time delay adjustment range             | 0 Ms<br>60 Ms<br>150 Ms<br>500 Ms<br>1000 ms  |
| Neutral protection settings   | No protection<br>1 x I <sub>r</sub><br>0.5 x I <sub>r</sub>   |
| 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  | Flashing LED (green) for ready to operate<br>LED 105 % I <sub>r</sub> (red) for overload<br>LED 90 % I <sub>r</sub> (orange) for overload   |
| 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   |
| Product certifications                | CCC<br>EAC   |
| 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                    | 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             | 1.606 kg |
| Package 1 Height             | 13.5 cm  |
| Package 1 width              | 15.4 cm  |
| Package 1 Length             | 19 cm    |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 4        |
| Package 2 Weight             | 6.865 kg |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Unit Type of Package 3       | P06      |
| Number of Units in Package 3 | 32       |
| Package 3 Weight             | 48.92 kg |
| Package 3 Height             | 45 cm    |
| Package 3 width              | 60 cm    |
| Package 3 Length             | 80 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>   |
| Circularity Profile        | <a href="#">End Of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |