

## Product data sheet

### Characteristics

# LV426735

circuit breaker Compact NSXm Micrologic Vigi  
4.1 25A 4P 50kA - EverLink



### Main

|                                                      |                                                                                                                                                                                              |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                      |
| Product name                                         | ComPact NSXm                                                                                                                                                                                 |
| Range of product                                     | ComPact NSXm                                                                                                                                                                                 |
| Device short name                                    | NSXm 25N                                                                                                                                                                                     |
| Product or component type                            | Earth leakage circuit breaker                                                                                                                                                                |
| Device application                                   | Distribution<br>Protection                                                                                                                                                                   |
| Number of poles                                      | 4P                                                                                                                                                                                           |
| Protected poles description                          | 4D                                                                                                                                                                                           |
| Neutral position                                     | Left                                                                                                                                                                                         |
| [In] rated current                                   | 25 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 | 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 |
| 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                        | 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 | 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 |
| 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                                | 1 Everlink lug wire size 2.5...70 mm <sup>2</sup> , fine stranded copper<br>1 Everlink lug wire size 2.5...95 mm <sup>2</sup> , rigid or stranded aluminium/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>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                                            | 25 A at 40 °C                                                                                                                                                                                                                                                                 |
| Long-time pick-up adjustment type Ir (thermal protection)   | Adjustable 9 settings                                                                                                                                                                                                                                                         |
| [Ir] long-time protection pick-up adjustment range          | 10...25 A                                                                                                                                                                                                                                                                     |
| Long-time protection delay adjustment type tr               | Fixed                                                                                                                                                                                                                                                                         |
| [tr] long-time protection delay adjustment range            | 5 S at 7.2 x Ir<br>8 S at 6 x Ir<br>200 s at 1.5 x Ir                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                         |
| [tsd] Short-time protection delay adjustment range          | 0.02 s                                                                                                                                                                                                                                                                        |
| Instantaneous protection pick-up adjustment type Ii         | Fixed                                                                                                                                                                                                                                                                         |
| [Ii] instantaneous protection pick-up adjustment range      | 375 A                                                                                                                                                                                                                                                                         |
| Earth-leakage protection                                    | Integrated                                                                                                                                                                                                                                                                    |
| Earth-leakage protection sensitivity 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 Ir                                                                                                                                                                                                                                                       |
| 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 % Ir (red) for overload<br>LED 90 % Ir (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             | 1.9 kg  |
| Package 1 Height             | 13.5 cm |
| Package 1 width              | 15.5 cm |
| Package 1 Length             | 19 cm   |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 4       |
| Package 2 Weight             | 8 kg    |
| Package 2 Height             | 30 cm   |
| Package 2 width              | 30 cm   |
| Package 2 Length             | 40 cm   |
| Package 3 Height             | 45 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       |