



## Main

|                           |                                  |
|---------------------------|----------------------------------|
| Range                     | Compact                          |
| Product name              | Compact NSXm Micrologic Vigi 4.1 |
| Device short name         | NSXm 100F                        |
| Product or component type | Earth leakage circuit breaker    |
| Device application        | Protection<br>Distribution       |

## Complementary

|                                        |                                                                                                                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] rated current                     | 100 A                                                                                                                                                                                        |
| Poles description                      | 4P 4d                                                                                                                                                                                        |
| Neutral position                       | Left                                                                                                                                                                                         |
| Control type                           | Toggle                                                                                                                                                                                       |
| Mounting mode                          | By screws (plate)<br>Clip-on (DIN rail)                                                                                                                                                      |
| Network type                           | AC                                                                                                                                                                                           |
| Network frequency                      | 50/60 Hz                                                                                                                                                                                     |
| Breaking capacity code                 | F 36 kA 415 V AC                                                                                                                                                                             |
| [Icu] rated ultimate breaking capacity | Icu 85 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 36 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 35 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ue] rated operational voltage         | 440 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                  |
| [Ics] rated service breaking capacity  | 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             |
| [Uimp] rated impulse withstand voltage | IEC 60947-2 8 kV                                                                                                                                                                             |
| [Ui] rated insulation voltage          | 500 V conforming to IEC 60947-2                                                                                                                                                              |
| Trip unit technology                   | Electronic                                                                                                                                                                                   |
| Trip unit name                         | Micrologic 4.1                                                                                                                                                                               |
| Trip unit protection functions         | LSolR                                                                                                                                                                                        |

|                                                                |                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trip unit rating                                               | 100 A at 40 °C                                                                                                                                                                                                                                                                |
| Protection type                                                | Earth-leakage protection<br>Overload protection (long time)<br>Short time short-circuit protection<br>Instantaneous short-circuit protection                                                                                                                                  |
| Thermal memory                                                 | 20 minutes before and after tripping                                                                                                                                                                                                                                          |
| Long time pick-up adjustment range                             | 0.4...1 x I <sub>n</sub>                                                                                                                                                                                                                                                      |
| [Tr] long-time 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>                                                                                                                                                                                     |
| Short-time pick-up adjustment type I <sub>sd</sub>             | Adjustable 9 settings                                                                                                                                                                                                                                                         |
| [I <sub>sd</sub> ] short-time pick-up adjustment range         | 1.5...10 x I <sub>r</sub>                                                                                                                                                                                                                                                     |
| Short-time delay adjustment type                               | Fixed                                                                                                                                                                                                                                                                         |
| Instantaneous pick-up range                                    | 1500 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 |
| [I <sub>Δn</sub> ] residual earth-leakage sensitive adjustment | 1 A<br>5 A<br>3 A<br>100 mA<br>500 mA<br>300 mA<br>30 mA                                                                                                                                                                                                                      |
| [Δt] residual earth-leakage time delay adjustment              | 0 ms<br>60 ms<br>150 ms<br>500 ms<br>1000 ms                                                                                                                                                                                                                                  |
| Suitability for isolation                                      | Yes conforming to IEC 60947-2                                                                                                                                                                                                                                                 |
| Utilisation category                                           | Category A                                                                                                                                                                                                                                                                    |
| 9 mm pitches                                                   | 12 module                                                                                                                                                                                                                                                                     |
| Connection pitch                                               | 35 mm with spreaders<br>27 mm without spreaders                                                                                                                                                                                                                               |
| Connections - terminals                                        | compression lug/busbar                                                                                                                                                                                                                                                        |
| Thread type                                                    | M6                                                                                                                                                                                                                                                                            |
| Thickness                                                      | 8 mm                                                                                                                                                                                                                                                                          |
| Local signalling                                               | Flag (green)presence of auxiliary contacts:                                                                                                                                                                                                                                   |
| Number of slots                                                | 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                                                                                                                                                                  |
| Power wire stripping length                                    | 20 mm                                                                                                                                                                                                                                                                         |

## Environment

|                         |                                           |
|-------------------------|-------------------------------------------|
| Quality labels          | CE                                        |
| Standards               | EN/IEC 60947                              |
| Product certifications  | CCC<br>EAC                                |
| Colour                  | Grey (RAL 7016)                           |
| IP degree of protection | Front cover: IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to IEC 62262              |
| Pollution degree        | 3 conforming to IEC 60947-1               |

|                                       |                                                                     |
|---------------------------------------|---------------------------------------------------------------------|
| Ambient air temperature for operation | -25...70 °C                                                         |
| Ambient air temperature for storage   | -40...85 °C                                                         |
| Operating altitude                    | 2000 m without derating<br>5000 m with derating                     |
| Mechanical durability                 | 20000 cycles conforming to IEC 947-1 Annex K ed 5.2 In              |
| Electrical durability                 | 10000 cycles conforming to IEC 947-1 Annex F ed 5.2 for In at 440 V |
| Height                                | 144 mm                                                              |
| Width                                 | 108 mm                                                              |
| Depth                                 | 80 mm                                                               |
| Product weight                        | 1.63 kg                                                             |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| EU RoHS Directive          | Compliant<br><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><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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 |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|