



Main

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| Range | Compact |
| Product name | Compact NSXm Micrologic Vigi 4.1 |
| Device short name | NSXm 100N |
| Product or component type | Earth leakage circuit breaker |
| Device application | Distribution Protection |

Complementary

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| [In] rated current | 100 A |
| Poles description | 3P 3d |
| Neutral position | Left |
| Control type | Toggle |
| Mounting mode | By screws (plate) Clip-on (DIN rail) |
| Network type | AC |
| Network frequency | 50/60 Hz |
| Breaking capacity code | N 50 kA 415 V AC |
| [Icu] rated ultimate breaking capacity | Icu 90 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 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 | 90 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947-2 |
| [Ui] rated insulation voltage | 500 V conforming to IEC 60947-2 |
| Trip unit technology | Electronic |
| Trip unit name | Micrologic 4.1 |

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| Trip unit protection functions | LSolR |
| Trip unit rating | 100 A at 40 °C |
| Protection type | Earth-leakage protection Overload protection (long time) Instantaneous short-circuit protection Short time short-circuit protection |
| Thermal memory | 20 minutes before and after tripping |
| Long time pick-up adjustment range | 0.4...1 x I _n |
| [Tr] long-time delay adjustment range | 5 s at 7.2 x I _r 8 s at 6 x I _r 200 s at 1.5 x I _r |
| Short-time pick-up adjustment type I _{sd} | Adjustable 9 settings |
| [I _{sd}] short-time pick-up adjustment range | 1.5...10 x I _r |
| Short-time delay adjustment type | Fixed |
| Instantaneous pick-up range | 1500 A |
| Earth-leakage sensitivity | 30 mA for class A 100 mA for class A 300 mA for class A 500 mA for class A 1000 mA for class A 30 mA for class AC 100 mA for class AC 300 mA for class AC 500 mA for class AC 1000 mA for class AC 3000 mA for class AC 5000 mA for class AC |
| [I _{Δn}] residual earth-leakage sensitive adjustment | 5 A 1 A 3 A 500 mA 100 mA 300 mA 30 mA |
| [Δt] residual earth-leakage time delay adjustment | 0 ms 60 ms 150 ms 500 ms 1000 ms |
| Suitability for isolation | Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| 9 mm pitches | 9 module |
| Connection pitch | 35 mm with spreaders 27 mm without spreaders |
| Connections - terminals | 1 Everlink lug wire size 2.5...70 mm ² , fine stranded copper 1 Everlink lug wire size 2.5...95 mm ² , rigid or stranded aluminium/copper |
| Tightening torque | 5 N.m for 2.5...10 mm ² 9 N.m for 16...95 mm ² |
| Local signalling | Flag (green)presence of auxiliary contacts: |
| Number of slots | 1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX |
| Power wire stripping length | 20 mm |

Environment

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|-------------------------|---|
| Quality labels | CE |
| Standards | EN/IEC 60947 |
| Product certifications | CCC EAC |
| Colour | Grey (RAL 7016) |
| IP degree of protection | Front cover: IP40 conforming to IEC 60529 |

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| 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 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 |
| Net weight | 1.63 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Under investigation |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |