



Main

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| Range | Compact |
| Product name | Compact NSXm Micrologic Vigi 4.1 |
| Device short name | NSXm 160N |
| Product or component type | Earth leakage circuit breaker |
| Device application | Distribution Protection |

Complementary

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| [In] rated current | 160 A |
| Poles description | 3P 3d |
| Neutral position | Left |
| Control type | Toggle |
| Mounting mode | By screws for plate Clip-on for DIN rail |
| Network type | AC |
| Network frequency | 50/60 Hz |
| Performance level | N |
| [Icu] rated ultimate breaking capacity | 90 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2 50 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2 50 kA at 440 V AC 50/60 Hz according to IEC 60947-2 |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz according to IEC 60947-2 |
| [Ics] rated service breaking capacity | 90 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2 50 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2 50 kA at 440 V AC 50/60 Hz according to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 8 kV according to IEC 60947-2 |
| [Ui] rated insulation voltage | 500 V according to IEC 60947-2 |
| Trip unit technology | Electronic |
| Trip unit name | Micrologic 4.1 |
| Trip unit protection functions | LSolR |

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| Trip unit rating | 160 A at 40 °C |
| Protection type | Earth-leakage protection Instantaneous short-circuit protection Overload protection (long time) 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 | At 7.2 x I _r Tr= 5 s At 6 x I _r Tr= 8 s At 1.5 x I _r Tr= 200 s |
| 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 | 2000 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 | 1 A 3 A 30 mA 100 mA 300 mA 500 mA 5 A |
| [Δt] residual earth-leakage time delay adjustment | 0 ms 60 ms 150 ms 1000 ms 500 ms |
| Suitability for isolation | Yes according 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 | Compression lug/busbar |
| Thread type | M6 |
| Thickness | Up to 8 mm |
| Local signalling | Green flag for 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 | IP40 (front cover) according to IEC 60529 |
| IK degree of protection | IK07 according to IEC 62262 |
| Pollution degree | 3 according to IEC 60947-1 |

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| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Operating altitude | 5000 m with derating 2000 m without derating |
| Mechanical durability | 20000 cycles according to IEC 947-1 Annex K ed 5.2 for In |
| Electrical durability | 10000 cycles according 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

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1739 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |