



### Main

Range	Compact
Product name	Compact NSXm Micrologic Vigi 4.1
Device short name	NSXm 50N
Product or component type	Earth leakage circuit breaker
Device application	Distribution Protection

### Complementary

[In] rated current	50 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

Trip unit protection functions	LSolR
Trip unit rating	50 A at 40 °C
Protection type	Earth-leakage protection Overload protection (long time) Short time short-circuit protection 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> 8 s at 6 x I <sub>r</sub> 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	750 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 <sub>Δn</sub> ] residual earth-leakage sensitive adjustment	500 mA 5 A 100 mA 3 A 30 mA 1 A 300 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 <sup>2</sup> , fine stranded copper 1 Everlink lug wire size 2.5...95 mm <sup>2</sup> , rigid or stranded aluminium/copper
Tightening torque	5 N.m for 2.5...10 mm <sup>2</sup> 9 N.m for 16...95 mm <sup>2</sup>
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

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

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

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Under investigation
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> 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