Product data sheet
Characteristics

LV426786
circuit breaker Compact NSXm Micrologic Vigi 4.1 50A 4P 50kA - lug/busbar

Green Premium Product

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	Protection Distribution

Complementary

[In] rated current	50 A
Poles description	4P 4d
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	LSoIR

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Trip unit rating	50 A at 40 °C
Protection type	Overload protection (long time) Earth-leakage protection 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 In
[Tr] long-time delay adjustment range	At 7.2 x Ir Tr= 5 s At 6 x Ir Tr= 8 s At 1.5 x Ir Tr= 200 s
Short-time pick-up adjustment type Isd	Adjustable 9 settings
[Isd] short-time pick-up adjustment range	1.5...10 x Ir
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
[IΔn] residual earth-leakage sensitive adjustment	3 A 500 mA 100 mA 300 mA 30 mA 5 A 1 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	12 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

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

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