Product data sheet
Characteristics

LV433309
circuit breaker Compact NSX100HB1 - Micrologic 5.2 E - 100 A - 3 poles 3d



Main

Range	Compact
Product name	Compact NSX
Product or component type	Circuit breaker
Device short name	Compact NSX100HB1
Device application	Distribution
Poles description	3P
Protected poles description	3t
Network type	AC
Network frequency	50/60 Hz
[In] rated current	100 A (40 °C)
[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ue] rated operational voltage	690 V AC 50/60 Hz
Breaking capacity code	HB1
Breaking capacity	75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 85 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 75 kA at 600 V AC 50/60 Hz conforming to NEMA AB1
[Ics] rated service breaking capacity	Ics 75 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 85 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 80 kA 525 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 5.2 E
Trip unit technology	Electronic
Trip unit protection functions	LSI
Trip unit rating	100 A (40 °C)
Protection type	Instantaneous short-circuit protection

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

	Overload protection (long time) Short time short-circuit protection
Pollution degree	3 conforming to IEC 60664-1

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	50000 cycles
Electrical durability	10000 cycles 690 V In conforming to IEC 60947-2 20000 cycles 690 V In/2 conforming to IEC 60947-2 30000 cycles 440 V In conforming to IEC 60947-2 50000 cycles 440 V In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	LED 105 % Ir LED 90 % Ir LED ready
Long time pick-up adjstment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	40...100 A
Long time delay adjustment type	Adjustable
[Tr] long-time delay adjustment	15...400 s 1.5 x Ir 0.35...11 s 7.2 x Ir 0.5...16 s 6 x Ir
Thermal memory	20 minutes before and after tripping
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	Adjustable
[Tsd] short-time delay adjustment range	0...0.4 s
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...15 x In
Zone selective interlocking ZSI	With
Communication of data	Demand current and power Energy metering Instantaneous and demand values Maintenance indicators Maximeters/Minimeters Power quality Protection and alarm settings Time-stamped histories and event tables
Display type	LCD display
Type of measurement	Energy meter
Electrical data recording	Maintenance indicators
Height	161 mm
Width	105 mm
Depth	86 mm
Product weight	2.05 kg

Environment

Electrical shock protection class	Class II
Standards	EN 60947-2 IEC 60947-2 NEMA AB1 UL 508

Product certifications	CSA UL
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-35...70 °C
Ambient air temperature for storage	-55...85 °C

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1248 - 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

Contractual warranty

Warranty period	18 months