



Main

Device short name	Compact NSX100H
Circuit breaker application	Motor protection
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
Circuit breaker rating code	H
Breaking capacity	Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 Icu 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 35 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 85 kA at 240 V AC 50/60 Hz conforming to UL 508 65 kA at 480 V AC 50/60 Hz conforming to UL 508 10 kA at 600 V AC 50/60 Hz conforming to UL 508
[Ics] rated service breaking capacity	Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 65 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 70 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 100 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2 Yes conforming to EN 60947-2
Utilisation category	Category A
Trip unit name	Micrologic 2.2 M
Trip unit technology	Electronic
Trip unit protection functions	LSol
Trip unit rating	100 A (65 °C)

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Protection type	Instantaneous short-circuit protection Overload protection (long time) Short time short-circuit protection
Pollution degree	3 conforming to IEC 60947-1

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	50000 cycles
Electrical durability	50000 cycles 440 V In/2 conforming to IEC 60947-2 30000 cycles 440 V In conforming to IEC 60947-2 20000 cycles 690 V In/2 conforming to IEC 60947-2 10000 cycles 690 V In conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	LED 95 % lth LED ready
Motor tripping class	5 10 20
Complementary motor protection	Phase unbalance
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	50...100 A
Long time delay adjustment type	Fixed
[Tr] long-time delay adjustment	5 s 7.2 x Ir 5 6.5 s 6 x Ir 5 10 s 7.2 x Ir 10 13.5 s 6 x Ir 10 20 s 7.2 x Ir 20 26 s 6 x Ir 20 120 s 1.5 x Ir 5 240 s 1.5 x Ir 10 480 s 1.5 x Ir 20
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable
[Isd] short-time pick-up adjustment range	5...13 x Ir
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type li	Fixed
Instantaneous pick-up adjustment range	1500 A
Height	161 mm
Width	105 mm
Depth	86 mm

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
Ambient air temperature for operation	-35...70 °C
Ambient air temperature for storage	-55...85 °C
RoHS EUR conformity date	0819
RoHS EUR status	Compliant