



Main

Device short name	Compact NSX100N
Circuit breaker 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
Circuit breaker rating code	N
Breaking capacity	<p>Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Icu 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Icu 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Icu 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>90 kA at 240 V AC 50/60 Hz conforming to NEMA AB1</p> <p>50 kA at 480 V AC 50/60 Hz conforming to NEMA AB1</p> <p>20 kA at 600 V AC 50/60 Hz conforming to NEMA AB1</p> <p>85 kA at 240 V AC 50/60 Hz conforming to UL 508</p> <p>50 kA at 480 V AC 50/60 Hz conforming to UL 508</p> <p>20 kA at 600 V AC 50/60 Hz conforming to UL 508</p>
[Ics] rated service breaking capacity	<p>Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Ics 36 kA 500 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2</p> <p>Ics 90 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2</p>
Suitability for isolation	<p>Yes conforming to IEC 60947-2</p> <p>Yes conforming to EN 60947-2</p>
Utilisation category	Category A
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit rating	16 A (40 °C)
Protection type	<p>Overload protection (thermal)</p> <p>Short-circuit protection (magnetic)</p>
Pollution degree	3 conforming to IEC 60947-1

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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	Positive contact indication
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Long time delay adjustment type	Fixed
[Tr] long-time delay adjustment	15 s 6 x Ir 120...400 s 1.5 x In
Short-time pick-up adjustment type Isd	Fixed
[Isd] short-time pick-up adjustment range	190 A
Short-time delay adjustment type	Fixed
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
IK degree of protection	IK07 conforming to EN 50102
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