



Main

Range	Compact
Product name	Compact NSX
Product or component type	Circuit breaker
Device short name	Compact NSX100S
Device application	Distribution
Poles description	2P
Protected poles description	2t
Network type	DC AC
Network frequency	50/60 Hz
[In] rated current	80 A at 40 °C
[Ui] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2 500 V DC conforming to IEC 60947-2
Breaking capacity code	S 70 kA 415 V AC
Breaking capacity	10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 250 V DC 1P conforming to IEC 60947-2 100 kA Icu at 125 V DC 1P conforming to IEC 60947-2 100 kA Icu at 500 V DC 2P conforming to IEC 60947-2
[Ics] rated service breaking capacity	10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 250 V DC conforming to IEC 60947-2 100 kA at 125 V DC conforming to IEC 60947-2 100 kA at 500 V DC conforming to IEC 60947-2

Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Pollution degree	3 conforming to IEC 60947

Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Auxiliary contact composition	Without
Mechanical durability	20000 cycles
Electrical durability	10000 cycles 277 V AC 50/60 Hz In conforming to IEC 60947-2 20000 cycles 277 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Magnetic tripping current	1000 A 190 A 300 A 800 A 1250 A 260 A 500 A 640 A
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	80 A at 40 °C
Long time pick-up adjustment type Ir	Fixed
Long time pick-up adjustment range	0.8...1 x In
Instantaneous pick-up adjustment type li	Fixed
Instantaneous pick-up adjustment range	640 A
Height	161 mm
Width	70 mm
Depth	86 mm
Compatibility code	NSX100

Environment

Standards	EN/IEC 60947
Product certifications	EAC CCC Marine
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration

Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months
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