



Main

Range	ComPacT new generation
Product name	ComPacT NSX new generation
Device short name	NSX100F
Product or component type	Circuit breaker
Device application	Distribution
Poles description	2P
Protected poles description	2D
[In] rated current	50 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz 500 V DC
Network type	AC DC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	36 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 18 KA Icu at 380/415 V AC 50/60 Hz 1P conforming to IEC 60947-2 15 KA Icu at 440 V AC 50/60 Hz 1P conforming to IEC 60947-2 10 KA Icu at 500/525 V AC 50/60 Hz 2P conforming to IEC 60947-2 5 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 250 V DC 50/60 Hz 1 pole conforming to IEC 60947-2 36 KA Icu at 500 V DC 50/60 Hz 2 poles in series conforming to IEC 60947-2
Performance level	F 18 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Circuit breaker mounting mode	Fixed

Complementary

[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
[Ics] rated service short-circuit breaking capacity	36 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 18 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 15 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 5 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 250 V DC 50/60 Hz conforming to IEC 60947-2 36 KA at 500 V DC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 cycles
Electrical durability	20000 Cycles at 277 V In/2 10000 cycles at 277 V In

Power dissipation per pole	4.11 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front
Connection pitch	35 mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	50 A at 40 °C
Long-time pick-up adjustment type I _r (thermal protection)	Fixed
[I _r] long-time protection pick-up adjustment range	1 x I _n
Long-time protection delay adjustment type t _r	Fixed
Instantaneous protection pick-up adjustment type I _i	Fixed
[I _i] instantaneous protection pick-up adjustment range	500 A
Earth-leakage protection	Without
Width (W)	70 mm
Height (H)	161 mm
Depth (D)	86 mm
Net weight	1.2 kg

Environment

Standards	EN/IEC 60947-2
Overvoltage category	Class II
Electrical shock protection class	Class II
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information