Product datasheet

Specifications



Circuit breaker, ComPacT NSX100F AC/DC, 18kA/415VAC, 2 poles, TMD trip unit 100A

C10F2TM100

Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX100F
Product or component type	Circuit breaker
Device application	Distribution
Poles description	2P
Protected poles description	2D
[In] rated current	100 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
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
Breaking capacity code	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

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

[Ics] rated service 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	8.8 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	100 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Fixed
[Ir] long-time protection pick-up adjustment range	1 x In
Long-time protection delay adjustment type tr	Fixed
Instantaneous protection pick-up adjustment type Ii	Fixed
[Ii] instantaneous protection pick-up adjustment range	800 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	III
Electrical shock protection class	Class II on front face
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.900 cm
Package 1 Width	13.000 cm
Package 1 Length	17.600 cm
Package 1 Weight	1.240 kg
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	15.280 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**104 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**7 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.4 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**95 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**2 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**3874e08b-fcb8-4aa9-87c4-d36abebf2833**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
Halogen-free status	**Product contains halogen above thresholds**
PVC free	**Yes**

Use Again

Repack and remanufacture

Recyclability potential, in %	**54**
End of life manual availability	End of Life Information
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**