Product datasheet

Specifications





Circuit breaker, ComPact NSX100F AC/DC, 18kA/415VAC, TMD trip unit 20A, 2 poles 2d

LV438593

() Discontinued on: Jun 15, 2023 AD

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Main

Mann	
Range	ComPact
Product Name	ComPact NSX
Range Of Product	ComPact NSX100250 ComPact NSX100250 DC
Device Short Name	NSX100F
Product Or Component Type	Circuit breaker
Device Application	Distribution
Number Of Poles	2P
Protected Poles Description	2t
[In] Rated Current	20 A at 40 °C
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz 500 V DC
Network Type	DC AC
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	5 kA lcu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA lcu at 250 V DC 1P conforming to IEC 60947-2 36 kA lcu at 125 V DC 1P conforming to IEC 60947-2 36 kA lcu at 500 V DC 2P conforming to IEC 60947-2 10 kA lcu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 15 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 18 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 36 kA lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Performance Level	F 18 kA 415 V AC
Trip Unit Name	TM-D
Trip Unit Technology	Thermal-magnetic
Control Type	Toggle
Circuit Breaker Mounting Mode	Fixed

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

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[Ics] Rated Service Short-Circuit Breaking Capacity	5 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 250 V DC conforming to IEC 60947-2 36 kA at 125 V DC conforming to IEC 60947-2 36 kA at 500 V DC conforming to IEC 60947-2 10 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 15 kA at 440 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 36 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical Durability	20000 cycles
Electrical Durability	10000 cycles at 277 V In 20000 cycles at 277 V In/2
Mounting Support	Backplate
Upside Connection	Front
Downside Connection	Front
Connection Pitch	35 mm
Protection Type	for overload protection (thermal) for short-circuit protection (magnetic)
Trip Unit Rating	20 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Fixed
[Ir] Long-Time Protection Pick-Up Adjustment Range	1 In
[Im] Magnetic Protection Pick-Up Range	190 A
Earth-Leakage Protection	Without
Width (W)	70 mm
Height (H)	161 mm
Depth (D)	86 mm

Environment

Standards	EN/IEC 60947
Product Certifications	CCC EAC Marine
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	-2570 °C
Ambient Air Temperature For Storage	-5085 °C
Relative Humidity	095 %
Operating Altitude	02000 m without derating 2000 m5000 m with derating

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.0 cm

Package 1 Width	13.0 cm
Package 1 Length	17.5 cm
Package 1 Weight	1.281 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	15.859 kg

Contractual warranty

Warranty

18 months

Sustainability Screen

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
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