Product datasheet

Specifications

Green Premium™

Circuit breaker, ComPacT NSX100F AC/DC, 18kA/240VAC, 1 pole, TMD trip unit 80A

C10F1TM080

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	1P
Protected Poles Description	1D
[In] Rated Current	80 A at 40 °C
[Ue] Rated Operational Voltage	277 V AC 50/60 Hz 250 V DC 50/60 Hz
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	18 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 250 V DC conforming to IEC 60947-2
Performance Level	F 18 kA 240 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	18 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA at 250 V DC 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	8.77 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	80 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	640 A
Earth-Leakage Protection	Without
Width (W)	35 mm
Height (H)	161 mm
Depth (D)	86 mm
Net Weight	0.7 kg

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	-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	5.0 cm
Package 1 Width	13.0 cm
Package 1 Length	18.0 cm
Package 1 Weight	750.0 g

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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	9.079 kg

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

✓ Pvc Free

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

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Environmental Disclosure   Product Environmental Profile

Circularity Profile   End of Life Information

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