

Product datasheet

Specifications



Circuit breaker ComPacT NSX320F DC, 36kA at 750 VDC, TM-DC trip unit, 320A rating, 3 poles

C40F3TM320D

Main

Range	ComPacT new generation
Product Name	ComPacT NSX DC new generation
Device Short Name	NSX400F DC
Product Or Component Type	Circuit breaker
Device Application	Distribution
Poles Description	3P
Protected Poles Description	3D
[In] Rated Current	320 A at 40 °C
[Ue] Rated Operational Voltage	750 V DC
Network Type	DC
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 24...125 V DC 1 pole conforming to IEC 60947-2 36 kA Icu at 250 V DC 1 pole conforming to IEC 60947-2 36 kA Icu at 500 V DC 2 poles in series conforming to IEC 60947-2 36 kA Icu at 750 V DC 3 poles in series conforming to IEC 60947-2
Performance Level	F 36 kA 750 V DC
Trip Unit Name	TM-DC
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 DC 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 24...125 V DC conforming to IEC 60947-2 36 kA at 250 V DC conforming to IEC 60947-2 36 kA at 500 V DC conforming to IEC 60947-2 36 kA at 750 V DC conforming to IEC 60947-2
Mechanical Durability	5000 cycles
Electrical Durability	2000 cycles at 750 V In/2 1000 cycles at 750 V In
Mounting Support	Backplate

Mounting Position	Horizontal and vertical Flat on the back
Upside Connection	Front
Downside Connection	Front
Connection Pitch	45 mm
Protection Type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip Unit Rating	320 A at 40 °C
Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)	Adjustable
[Ir] Long-Time Protection Pick-Up Adjustment Range	0.7...1 x In
Long-Time Protection Delay Adjustment Type Tr	Fixed
Instantaneous Protection Pick-Up Adjustment Type Ii	Adjustable
[Ii] Instantaneous Protection Pick-Up Adjustment Range	2.5...5 x In
Earth-Leakage Protection	Without
Number Of Slots For Electrical Auxiliaries	6 slot(s)
Width (W)	140 mm
Height (H)	255 mm
Depth (D)	110 mm
Net Weight	8.0 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	14.7 cm
Package 1 Width	20.0 cm
Package 1 Length	29.1 cm

Package 1 Weight

5.436 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-CO₂ products.

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Transparency [RoHS/REACH](#)

Well-being performance

Mercury Free

Rohs Exemption Information [Yes](#)

Halogen Free Plastic Parts Product

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Compliant

[EU RoHS Declaration](#)

China Rohs Regulation

[China RoHS declaration](#)

Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure

[Product Environmental Profile](#)