

Product data sheet

Characteristics

C1BN2TM630D

Circuit breaker, ComPacT NSX1200N DC,
50kA/600VDC, 2 poles, TM-DC trip unit 630A



Main

Range	ComPacT new generation
Product name	ComPacT NSX DC new generation
Device short name	NSX1200 DC
Product or component type	Circuit breaker
Device application	Distribution
Poles description	2P
Protected poles description	2D
[In] rated current	630 A at 40 °C
[Ue] rated operational voltage	600 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	50 kA Icu at 24...300 V DC 1 pole conforming to IEC 60947-2 50 kA Icu at 300...600 V DC 2 poles in series conforming to IEC 60947-2
Performance level	N 50 kA 600 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	12.5 kA at 24...300 V DC conforming to IEC 60947-2 12.5 kA at 300...600 V DC conforming to IEC 60947-2
Mechanical durability	5000 cycles
Electrical durability	2000 Cycles at 600 V In/2 1000 cycles at 600 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	630 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 li	Adjustable
[li] 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)	185 mm
Height (H)	350 mm
Depth (D)	110 mm
Net weight	9.4 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	15.8 cm
Package 1 Width	19.6 cm
Package 1 Length	36.8 cm
Package 1 Weight	7.9 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Halogen content performance	Halogen free plastic parts product