

C63F4TM500D1

Circuit breaker, ComPacT NSX500 DC PV,
10kA/1000VDC, 4 poles, TM-DC PV trip unit
500A



Main

Range	ComPacT new generation
Product name	ComPacT NSX DC PV
Device short name	NSX500 DC PV
Product or component type	Circuit breaker
Device application	Photovoltaic
Poles description	4P
[In] rated current	500 A at 40 °C
[Ue] rated operational voltage	1000 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	10 kA Icu at 1000 V DC 4 poles in series conforming to IEC 60947-2
Performance level	F 10 kA 1000 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	1000 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	10 kA at 1000 V DC conforming to IEC 60947-2
Mechanical durability	5000 cycles
Electrical durability	1000 cycles at 1000 V In
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front Rear
Connection pitch	45 mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	500 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	5...10 x In

Earth-leakage protection	Without
Width (W)	225 mm
Height (H)	185 mm
Depth (D)	110 mm
Net weight	8.1 kg

Environment

Standards	EN/IEC 60947
Product certifications	CCC[RETURN]EAC[RETURN]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	30.0 cm
Package 1 Width	30.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	10.0 kg
Unit Type of Package 2	P12
Number of Units in Package 2	36
Package 2 Height	50.0 cm
Package 2 Width	80.0 cm
Package 2 Length	120.0 cm
Package 2 Weight	372.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
Halogen content performance	Halogen free plastic parts product