

C50F4TM500D3

Circuit breaker, ComPacT NSX500 TM DC EP,
50kA/1500VDC, 4 poles, TM-DC EP trip unit
500A



Main

Range	ComPacT new generation
Product name	ComPacT NSX DC EP
Device short name	NSX500 DC EP
Product or component type	Circuit breaker
Device application	Photovoltaic Marine application
Poles description	4P
[In] rated current	500 A at 40 °C
[Ue] rated operational voltage	1500 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 1500 V DC 4 poles in series conforming to IEC 60947-2 50 kA Icu at 1100 V DC 4 poles in series conforming to IEC 60947-2
Performance level	F 50 kA 1500 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	1600 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	20 kA at 1500 V DC conforming to IEC 60947-2 50 kA at 1100 V DC conforming to IEC 60947-2
Mechanical durability	8000 cycles
Electrical durability	3000 cycles at 1500 V In
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front
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 I _n
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
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

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information