

Switching device combination - SOL-SC-2ST-0-DC-1MPPT-1101 - 2404297

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



String combiner box for photovoltaic systems up to 1000 V DC for the connection of 1x 2 strings. With surge protection, DC switch disconnecter, and SUNCLIX DC connector for the input and output side.

Product Description

The Solarline string combiner boxes (SCBs) are used in both small rooftop systems and large ground-mounted systems. Their functions include collecting and protecting strings and, if necessary, separating the panels from the rest of the system by means of a fire service or switch disconnectors.

Why buy this product

- ✓ Fast installation and startup
- ✓ Large portfolio of string combiner boxes in stock
- ✓ Application-oriented consultation
- ✓ Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 396224
GTIN	4055626396224
Custom tariff number	85363030
Country of origin	Germany
Sales Key	V1 - Terminl Blocks+Boxes

Technical data

System parameter

System voltage	1000 V DC (U_{max})
Number of string inputs	2
Current per string	16 A (I_{max})
Number of outputs	1
Number of supported MPP trackers	1

Switching device combination - SOL-SC-2ST-0-DC-1MPPT-1101 - 2404297

Technical data

System parameter

Switching capacity	32 A (1000 V)
--------------------	---------------

Safety equipment

Surge protective device	T1 / T2
Protection level U_p	≤ 3.5 kV
Total discharge current I_{total} (8/20) μ s	40 kA
Total discharge current I_{total} (10/350) μ s	5 kA

Cable entry

Type of cable entry	SUNCLIX
Cable cross section string input	2.5 mm ² ... 6 mm ²
Cable cross section output	2.5 mm ² ... 6 mm ²
Cable cross section grounding	16 mm ²
Sealing area grounding	6 mm ... 12 mm

General data

Housing material	Polycarbonate
Material cover/door	Polycarbonate (transparent)
Degree of protection	IP65
Protection class	II

Dimensions

Outer dimensions: width, height, depth	180 mm x 180 mm x 111 mm (Housing dimensions)
--	---

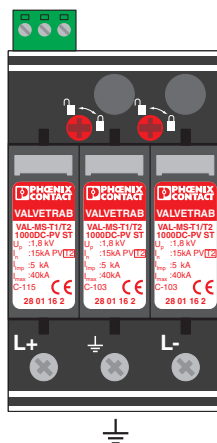
Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
---------------------------------	------------------

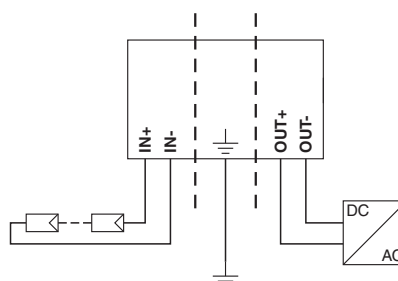
Drawings

Switching device combination - SOL-SC-2ST-0- DC-1MPPT-1101 - 2404297

Schematic diagram



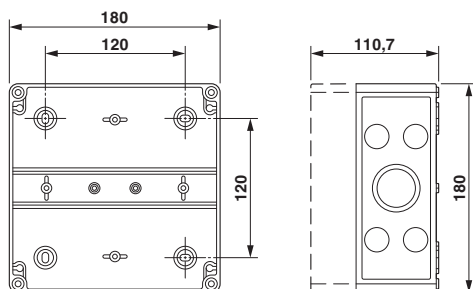
Connection diagram



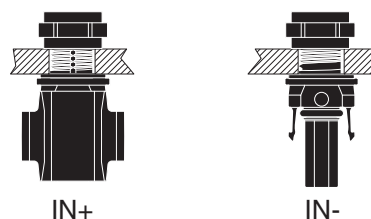
Schematic application drawing

Connection of the protective grounding
conductor on the surge protection

Dimensional drawing



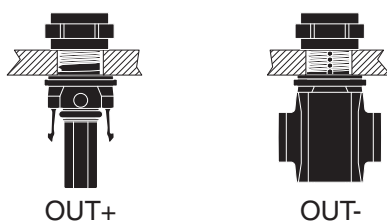
Schematic diagram



Connection of the PV strings

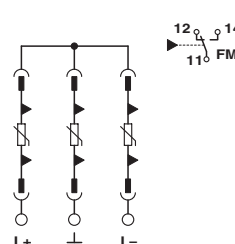
Housing dimensions

Schematic diagram



Connection to the inverter

Circuit diagram



Connection of the remote indication contact on the surge protection

Classifications

eCl@ss

eCl@ss 5.1	27371890
------------	----------

Switching device combination - SOL-SC-2ST-0- DC-1MPPT-1101 - 2404297

Classifications

eCl@ss

eCl@ss 8.0	27142422
eCl@ss 9.0	27142422

ETIM

ETIM 4.0	EC000816
ETIM 5.0	EC000268
ETIM 6.0	EC000268