

Switching device combination - SOL-SC-3ST-0-DC-1MPPT-1001 - 2404765

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 1x 3 strings. With surge protection and SUNCLIX DC connector for the input and output side.

Similar figure

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.

Your advantages

- ✓ 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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 436739
GTIN	4055626436739
Weight per Piece (excluding packing)	1,500.000 g
Weight per piece (including packing)	1,600.000 g
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	3

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Technical data

System parameter

Number of outputs	1
Number of supported MPP trackers	1

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	6 mm ² ... 16 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)
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Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
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Drawings

Schematic diagram



Connection of the protective grounding conductor

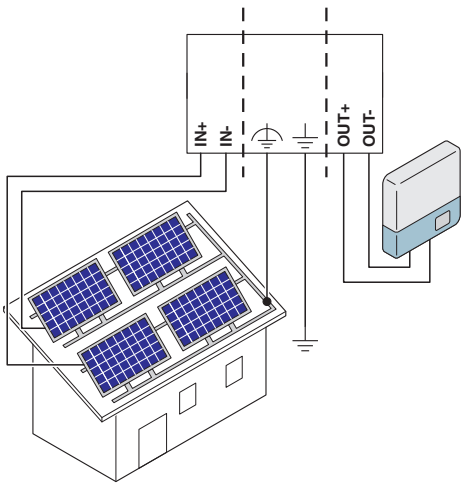
Schematic diagram



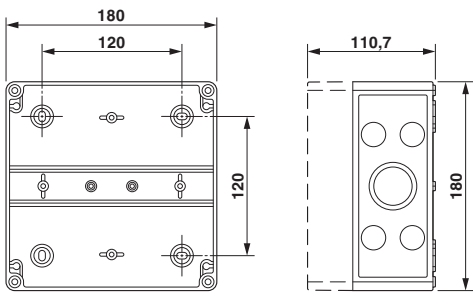
Connection of the protective equipotential bonding conductor

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Connection diagram



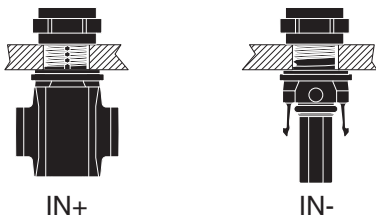
Dimensional drawing



Housing dimensions

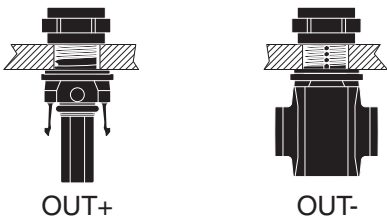
Schematic application drawing

Schematic diagram



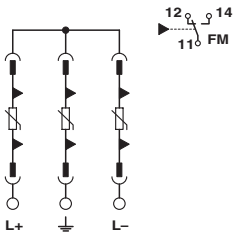
Connection of the PV strings

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
eCl@ss 8.0	27142422
eCl@ss 9.0	27142422

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Classifications

ETIM

ETIM 4.0	EC000816
ETIM 5.0	EC000268
ETIM 6.0	EC000268

Accessories

Accessories

Photovoltaic connector

Photovoltaic Y-distributor - PV-YC 6/ 1-0,12-SO3 (-/++) - 1787726



Photovoltaic connector, Photovoltaic Y-distributor, color: black. Assembled with SUNCLIX - 1x male (minus) - 2x female (plus); length of single cable 0.12 m, varying number of nodes and customer-specific cable lengths are available on request.

Photovoltaic Y-distributor - PV-YC 6/ 1-0,12-SO3 (+/--) - 1787739



Photovoltaic connector, Photovoltaic Y-distributor, color: black. Assembled with SUNCLIX - 1x female (plus) - 2x male (minus); length of single cable 0.12 m, varying number of nodes and customer-specific cable lengths are available on request.

Connector - PV-CF-S 2,5-6 (+) - 1774674



Photovoltaic connector, Connector, : 0 mm, color: black, number of positions: 1, Min. wire cross section: 2.5, Max. conductor cross section: 6, Rated current: 27 A, Connection method: Spring-cage connection, Type of contact: Socket. can only be released using a tool

Connector - PV-CM-S 2,5-6 (-) - 1774687



Photovoltaic connector, Connector, : 0 mm, color: black, number of positions: 1, Min. wire cross section: 2.5, Max. conductor cross section: 6, Rated current: 27 A, Connection method: Spring-cage connection, Type of contact: Pin. can only be released using a tool

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Accessories

Connector - PV-CF-S 6-16 (+) - 1790784



Photovoltaic connector, Connector, color: black, number of positions: 0, Min. wire cross section: 6, Max. conductor cross section: 16, Rated current: 40 A, Connection method: Spring-cage, Type of contact: Socket. can only be released using a tool

Connector - PV-CM-S 6-16 (-) - 1790797



Photovoltaic connector, Connector, color: black, number of positions: 0, Min. wire cross section: 6, Max. conductor cross section: 16, Rated current: 40 A, Connection method: Spring-cage, Type of contact: Pin. can only be released using a tool

Fuse plug - PV-C-M/F-PRO/F-1000/15-EU - 1622156



Fuse connector for protecting modules and devices in photovoltaic systems, black, SUNCLIX pin connector pattern, 1000 V/15 A, IP68 (24 h/2 m)

Protective cap

Protective cap - PV-C PROTECTION CAP - 1785430

Protective cap for SUNCLIX photovoltaic connector; transport protection for the mating face.



Replacement plug

Type 1/2 surge protection plug - VAL-MS-T1/T2 1000DC-PV-ST - 2801162



Replacement plug for PV arrester combinations from the VAL-MS-T1/T2 1000DC-PV-... product range

