

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 3x 1 string. With surge protection 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



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|---------------------------|
| GTIN | 4 055626 396255 |
| GTIN | 4055626396255 |
| Weight per Piece (excluding packing) | 3,100.000 g |
| Weight per piece (including packing) | 3,100.000 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 | 1 (per MPP tracker) |
| Current per string | 40 A (I _{max}) |

02/06/2018 Page 1 / 4



Technical data

System parameter

| Number of outputs | 1 (per MPP tracker) |
|----------------------------------|---------------------|
| Number of supported MPP trackers | 3 |

Safety equipment

| Surge protective device | T1 / T2 |
|--|----------|
| Protection level U _p | ≤ 3.5 kV |
| Total discharge current I _{total} (8/20) μs | 40 kA |
| Total discharge current I _{total} (10/350) μs | 5 kA |

Cable entry

| Type of cable entry | SUNCLIX |
|----------------------------------|-----------------|
| Cable cross section string input | 2.5 mm² 6 mm² |
| Cable cross section output | 2.5 mm² 6 mm² |
| Cable cross section grounding | 16 mm² (2x) |
| Sealing area grounding | 6 mm 12 mm (2x) |

General data

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

Dimensions

| Outer dimensions: width, height, depth | 254 mm x 180 mm x 111 mm (Housing dimensions) |
|--|---|
|--|---|

Ambient conditions

| Ambient temperature (operation) | -20 °C 55 °C |
|---------------------------------|--------------|

Drawings

Schematic diagram



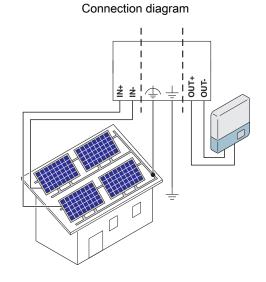
Schematic diagram



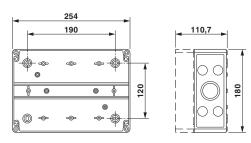
Connection of the protective grounding conductor

Connection of the protective equipotential bonding conductor





Dimensional drawing



Housing dimensions

Schematic application drawing

Schematic diagram





Schematic diagram

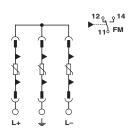




Connection of the PV strings

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 |



Classifications

ETIM

| ETIM 4.0 | EC000816 |
|----------|----------|
| ETIM 5.0 | EC000268 |
| ETIM 6.0 | EC000268 |

Phoenix Contact 2018 © - all rights reserved http://www.phoenixcontact.com