

INDUSTRIAL COMPONENT DATA

SOL-SC-3ST-0-DC-1MPPT-1001 2404765 PHOENIX CONTACT

Switching device combination

Brand: PHOENIX CONTACT | Manufacturer Part Number: SOL-SC-3ST-0-DC-1MPPT-1001



Manufacturer	PHOENIX CONTACT
MPN / Reference	SOL-SC-3ST-0-DC-1MPPT-1001
Catalog number	2404765
Category	Photovoltaic DC Stringbox
Minimum order	1 Pcs
Document ID	EO-9DF24DEB9E
Generated	2026-09-22

Product Overview

Switching device combination

Connection box of generators for photovoltaic installations 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.

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.

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path **PHOENIX CONTACT > Industry Solutions (IS)**

Additional Product Information

Technical dataProduct propertiesProduct type String combiner box (SCB)

Scope of delivery SUNCLIX DC connector for connecting the SCB

Insulation characteristics

Protection class II

Electrical propertiesGeneral

MPP voltage Un max. 1000 V DC

Non-load voltage UOC max. 1100 V DC

Current per string Imax max. 13.3 A

Total current MPP tracker max. 40 A

Surge protection

EN type T1

IEC test classification T1
Protection level $U_p \leq 3.5$ kV
Total discharge current $I_{total}(10/350)$ μ s 5 kA
Total discharge current $I_{total}(8/20)$ μ s 40 kA
Short-circuit current rating ISCPV 40 A
Input dataDC
Number of inputs: Strings 3 (per MPP tracker)
Number of supported MPP trackers 1
Output dataDC
Number of outputs: MPP tracker 1
Number of outputs: ± 1 (per MPP tracker)
Connection dataDC input
Type of cable entry SUNCLIX
Cable cross-section range: 2.5 mm² ... 6 mm²
Protective bonding and protective grounding conductor
Type of cable entry Cable gland
Connection method Screw connection
Cable cross-section range: 16 mm²
External cable diameter 6 mm ... 12 mm
DC output
Type of cable entry SUNCLIX
Cable cross-section range: 6 mm² ... 16 mm²
DimensionsHousing
Width 180 mm
Height 180 mm
Depth 111 mm
Material specificationsMaterial Housing Polycarbonate
Material Cover/door Polycarbonate (transparent)
Environmental and real-life conditionsAmbient conditions
Degree of protection IP65
Ambient temperature (operation) -20 °C ... 55 °C

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / SOL-SC-3ST-0-DC-1MPPT-1001 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten PI #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.