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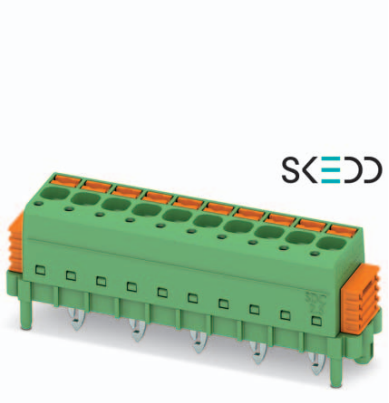
Product version 00
Document revision 0

Data sheet

Order No.: 1864095

Type: SDC 2,5/ 8-PV-5,0-ZB

Plug component, Push-in spring connection



The figure shows a 10-position version

1 Main features

- Number of positions 8
- Conductor cross section 2.5 mm²
- Color green
- Pitch 5.00 mm
- Connection method Push-in spring connection
- Nominal current 12 A
- Nominal voltage 200 V
- Connection direction 0 °
- Type of packaging packed in cardboard

2 Your advantages

- SKEDD direct plug-in technology enables flexible positioning on the PCB
- Reduced component and process costs: simple insertion by hand and vibration-resistant connection
- Time saving push-in connection, tools not required
- Intuitive use through colour coded actuation lever
- Quick and convenient testing using integrated test option

Make sure you always use the latest documentation.
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4 3D model in PDF can be activated (Acrobat Reader only)

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5 Item properties

Order No.	1864095
Type	SDC 2,5/ 8-PV-5,0-ZB
Range of articles	SDC 2,5/..-PV
Pitch	5.00 mm
Number of positions	8
Connection method	Push-in spring connection
Mounting type	SKEDD - Direct plug-in technology
Pin layout	ZB - Zig-zag back pinning W
Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201

5.1 Connection capacity

Conductor cross section, solid	0.2 mm² to 2.5 mm²
Conductor cross section, flexible	0.2 mm² to 2.5 mm²
Conductor cross section AWG/kcmil	24 to 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² to 2.5 mm² Ferrule see above
Conductor cross section flexible, with ferrule with plastic sleeve	0.25 mm² to 2.5 mm² Ferrule see above
Stripping length	10 mm

5.2 Material data

Material of metal parts		
Contact material	Cu alloy	
Surface contact area	Ni 1.5 µm ... 4 µm , Sn 4 µm ... 8 µm	
Soldering area surface		
Surface characteristics	Tin-plated	
Insulating material data	**Housing**	**Actuation element**
Insulating material	PA	PBT
CTI according to IEC 60112	600	275
Flammability rating according to UL 94	V0	V0
Color	green (6021)	orange (2003)

5.3 Dimensions

Dimension a	35 mm
Length	15.3 mm
Width	48.18 mm
Constructional height	21.2 mm
Height	21.2 mm
Length of the solder pin [P]	4.7 mm
Pin spacing	10.00 mm
Hole diameter	2.4 mm

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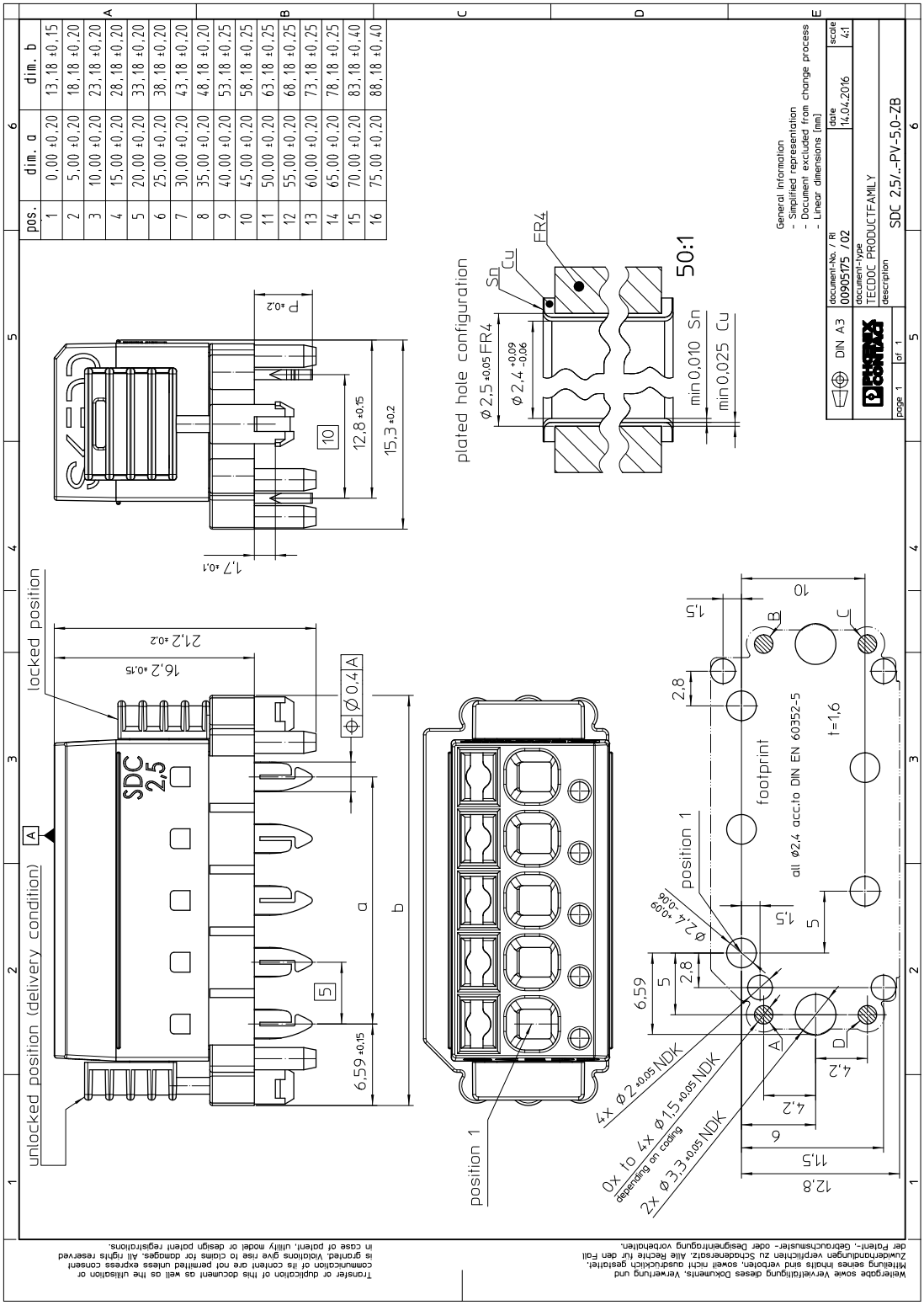
6 Series drawing



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7 Packaging information

Type of packaging	packed in cardboard

8 Application

8.1 Temperature limit values

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... X °C (dependent on the derating curve)

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9 Mechanical tests

Mechanical test group A	
Specification	IEC 61984:2008-10
Visual test	Test passed
Specification	IEC 60512-1-1:2002-02
Dimensional test	Test passed
Specification	IEC 60512-1-2:2002-02
Resistance of marking	Test passed
Specification	IEC 60068-2-70:1995-12
Insertion and withdrawal force	Test passed
Specification	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	8 N ( )
Withdraw strength per pos. approx.	6 N ( )
Polarization and coding	Test passed
Specification	IEC 60512-13-5:2006-02
Test force	20 N
Contact retention in insert	Test passed
Specification	IEC 60512-15-1:2008-05
Test force per pos.	20 N

9.1 Air and creepage distances

Component			
Specification	IEC 60664-1:2007-04		
Mains type	unearthed mains		
Insulating material group			
Comparative tracking index (IEC 60112:2003-01)	CTI 275		
Rated insulation voltage	200 V	320 V	320 V
Rated surge voltage	4 kV	4 kV	4 kV
Degree of pollution	3	2	2
Overvoltage category	III	III	II
Minimum clearance case A (inhomogeneous field)	3 mm	3 mm	3 mm
Minimum value of the creepage path requirement in acc. with table	3.2 mm	3.2 mm	3.2 mm

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10 Electrical tests

10.1 Electrical data

Rated current/rated insulation voltage/rated surge voltage/degree of pollution	12 A			2

10.2 Current carrying capacity/derating curves

Specification	
Note	Representation based on IEC 60512-5-2:2002-02
Reduction factor	
Number of positions	See diagram
Conductor cross section	
Note	

11 Type approval and special tests

12 Approvals

13 Commercial data

Order No.	1864095
Type	SDC 2,5/ 8-PV-5,0-ZB
GTIN	4055626210391
Pieces per package	50
Net weight (SAP)	2.22 g
Customs tariff number	
Country of origin	

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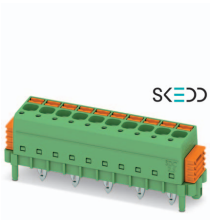
13.1 Combination tests



SDC 2,5/..-PV

Specification	IEC 61984			
Mechanical tests				
Insertion/withdrawal force per position	8 N / 6 N			
	Test passed			
Contact holder in insert Requirements > 24 N	Test passed			
	1.1 mΩ			
Insertion/withdrawal cycles	25			
	Test passed			
	Test passed			
Rated voltage (III/2)	320 V			
	16			
	2.5 mm^2			
Test current				
	Test passed			
	-40 °C/2 h			
	100 °C/168 h			
	0.2 dm^3 SO_2 on 300 dm^3/ 40 °C/1 cycle			
	Test passed			
	Test passed			
	Test passed			
Environmental and durability tests				
Result, degree of protection, IP code	Finger safety (IP20 test finger) in acc. with IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08			

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