PCB direct plug - CDDC 2,5/16-PV-5,0 - 1016272

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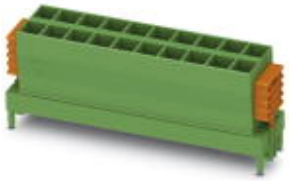
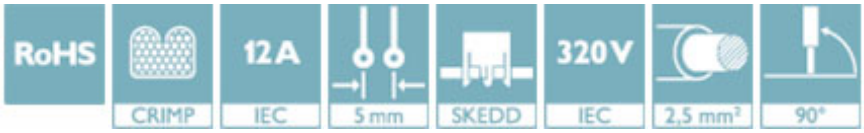


The figure shows a 10-pos. version with 20 contacts

PCB direct plug, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 16, pitch: 5 mm, connection method: Crimp connection, color: green, contact surface: Tin, mounting: SKEDD - Direct plug-in technology

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
- Contacts arranged in a double row enable high packing density in a compact area
- Wide range of applications, thanks to suitability for PCBs with chemically tin-plated or Hot Air Leveling (HAL) surface
- Cost-effective connection of crimped conductors in large quantities
- Tools for manual and automatic crimping available as an option



Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 055626 497839
GTIN	4055626497839
Weight per Piece (excluding packing)	8.210 g
Custom tariff number	85472000
Note	Made to Order (non-returnable)

Technical data

Item properties

Brief article description	Direct connector
Plug-in system	SKEDD
Range of articles	CDDC 2,5/..-PV
Pitch	5 mm
Number of positions	16

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Technical data

Item properties

Connection method	Crimp connection
Mounting type	SKEDD - Direct plug-in technology
Locking	Self-locking flange
Number of levels	2
Number of connections	32
Number of potentials	32

Electrical parameters

Nominal current	12 A
Nom. voltage	320 V
Rated voltage	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV

Connection capacity

Connection method	Crimp connection
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG / kcmil	26 ... 14

Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Material data – actuating element

Insulating material	PA
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Dimensions for the product

Length [l]	13 mm
Width [w]	85.8 mm

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Technical data

Dimensions for the product

Height [h]	19.6 mm
Pitch	5 mm
Height (without solder pin)	16 mm
Pin spacing	7.00 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

General product information

Type of note	Note on the contact
	Note on application
	Note on application
	Note on application
	Note on application
Note	The information on the basic material and the finish properties of the crimp contacts is to be found in the E-Shop in the technical data for the respective crimp contact.
	All laboratory tests are performed in combination with the crimp contacts specified as accessories.
	The current depends on the crimp contact and conductor cross section used.
	The corresponding crimp contacts are to be found in the "Accessories" tab.
	The crimp contacts may only be processed with approved crimping tools.

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 105 °C (dependent on the derating curve)

Termination and connection method

Mechanical tests according to standard

Test specification	IEC 61984
Visual examination	Test passed IEC 60512-1-1:2002-02
Dimensional test	Test passed IEC 60512-1-2:2002-02
Resistance of marking	Test passed IEC 60068-2-70:1995-12
Result	Test passed
Specification	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	4 N
Withdraw strength per pos. approx.	3 N
Polarization and coding	Test passed IEC 60512-13-5:2006-02

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Technical data

Mechanical tests according to standard

Result	Test passed
Specification	IEC 60512-15-1:2008-05
Test force per pos.	20 N

Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	3 mm
Minimum clearance - inhomogeneous field (III/2)	3 mm
Minimum clearance - inhomogeneous field (II/2)	3 mm
Minimum creepage distance value (III/3)	3.2 mm
Minimum creepage distance value (III/2)	3 mm
Minimum creepage distance value (II/2)	3.2 mm

Current carrying capacity / derating curves

Specification	IEC 61984

Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	4 N
Withdraw strength per pos. approx.	3 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R_1	1.4 mΩ
Insertion/withdrawal cycles	25
Contact resistance R_2	1.4 mΩ
Impulse withstand voltage at sea level	4.8 kV
Power-frequency withstand voltage	2.21 kV
Insulation resistance, neighboring positions	> 1.6 TΩ

Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-55 °C/2 h
Thermal stress	105 °C/168 h
Corrosive stress	0.2 dm^3 SO_2 on 300 dm^3/40 °C/1 cycle
Impulse withstand voltage at sea level	4.8 kV
Power-frequency withstand voltage	2.21 kV

Environmental and durability tests (E)

Specification	IEC 61984:2008-10

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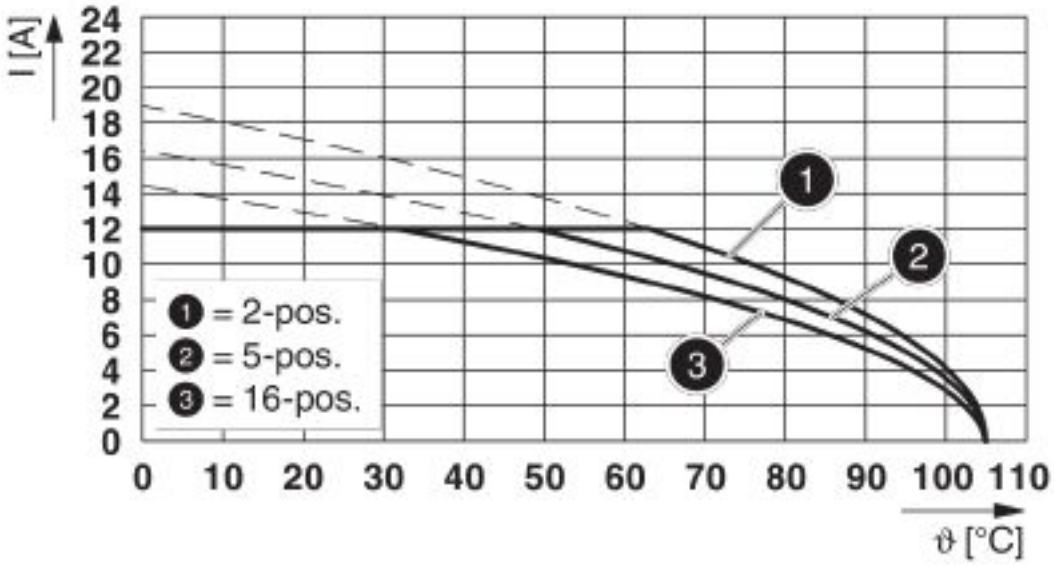
Technical data

Environmental and durability tests (E)

Result, degree of protection, IP code	Finger safety with IP20 test finger

Drawings

Diagram



Type: CDDC 2,5/...-PV-5,0

Classifications

eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 5.0	EC002637
ETIM 6.0	EC002638
ETIM 7.0	EC002638

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Approvals

Approvals

Approvals

cULus Recognized / VDE Zeichengenehmigung / IECEE CB Scheme

Ex Approvals

Approval details

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20160718

	B	D
Nominal voltage UN	300 V	300 V
Nominal current IN	12 A	10 A
mm²/AWG/kcmil	26-12	26-12

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40044617

Nominal voltage UN	320 V
Nominal current IN	12 A
mm²/AWG/kcmil	0.14-2.5

IECEE CB Scheme		http://www.iecee.org/	DE1-63213

Accessories

Accessories

Coding element

Coding profile - CP-PT 1,5 - 1985564

Coding profile, inserted into the hole on the plug, made from red insulating material, diameter: 1.35 mm

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Accessories

Additional products

Crimp contact - CDC-MP 0,14-0,5 - 1016664

Crimp contact

Crimp contact - CDC-MP 0,14-0,5-R - 1016663

Crimp contact

Crimp contact - CDC-MP 0,5-1,5 - 1016662

Crimp contact

Crimp contact - CDC-MP 0,5-1,5-R - 1016661

Crimp contact

Crimp contact - CDC-MP 1,5-2,5 - 1016660

Crimp contact

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Accessories

Crimp contact - CDC-MP 1,5-2,5-R - 1016659

Crimp contact