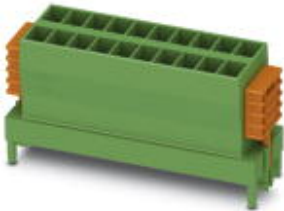


PCB direct plug - CDDC 1,5/10-PV-3,5 - 1016521

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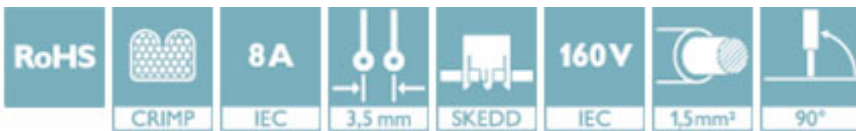


PCB direct plug, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of positions: 10, pitch: 3.5 mm, connection method: Crimp connection, color: green, contact surface: Tin, mounting: SKEDD - Direct plug-in technology, pin layout: Linear pinning

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

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 | 1 |
| GTIN | |
| GTIN | 4055626498171 |
| Custom tariff number | 85472000 |

Technical data

Item properties

| | |
|---------------------------|-----------------------------------|
| Brief article description | Direct connector |
| Plug-in system | SKEDD |
| Range of articles | CDDC 1,5/..-PV |
| Pitch | 3.5 mm |
| Number of positions | 10 |
| Connection method | Crimp connection |
| Mounting type | SKEDD - Direct plug-in technology |
| Pin layout | Linear pinning |

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Technical data

Item properties

| | |
|-----------------------|---------------------|
| Locking | Self-locking flange |
| Number of levels | 2 |
| Number of connections | 20 |
| Number of potentials | 20 |

Electrical parameters

| | |
|-----------------------------|--------|
| Nominal current | 8 A |
| Nom. voltage | 160 V |
| Rated voltage | 160 V |
| Rated voltage (III/2) | 160 V |
| Rated voltage (II/2) | 320 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (II/2) | 2.5 kV |

Connection capacity

| | |
|-------------------------------------|----------------------------------------------|
| Connection method | Crimp connection |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section AWG / kcmil | 26 ... 16 |

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] | 42.3 mm |
| Height [h] | 19.6 mm |
| Pitch | 3.5 mm |

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Technical data

Dimensions for the product

| | |
|-----------------------------|---------|
| 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 |
| Result | Test passed |
| Specification | IEC 60512-15-1:2008-05 |

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Technical data

Mechanical tests according to standard

| | |
|---------------------|------|
| 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) | 1.5 mm |
| Minimum clearance - inhomogeneous field (III/2) | 1.5 mm |
| Minimum clearance - inhomogeneous field (II/2) | 1.5 mm |
| Minimum creepage distance value (III/3) | 2 mm |
| Minimum creepage distance value (III/2) | 1.5 mm |
| Minimum creepage distance value (II/2) | 1.6 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 | 1.5 mΩ |
| Insertion/withdrawal cycles | 25 |
| Contact resistance R ₂ | 1.6 mΩ |
| Impulse withstand voltage at sea level | 2.95 kV |
| Power-frequency withstand voltage | 1.39 kV |
| Insulation resistance, neighboring positions | > 20 GΩ |

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 | 2.95 kV |
| Power-frequency withstand voltage | 1.39 kV |

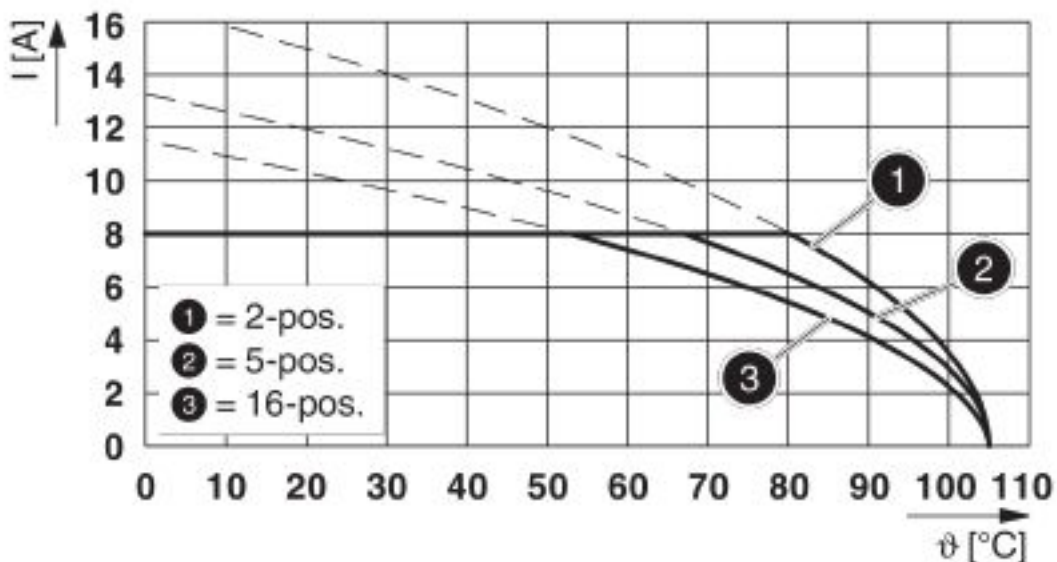
Environmental and durability tests (E)

| | |
|---------------------------------------|-------------------------------------|
| Specification | IEC 61984:2008-10 |
| Result, degree of protection, IP code | Finger safety with IP20 test finger |

Drawings

PCB direct plug - CDDC 1,5/10-PV-3,5 - 1016521

Diagram



Type: CDDC 1,5/...-PV-3,5

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 |

Approvals

Approvals

Approvals


cULus Recognized / VDE Zeichengenehmigung / IECCEB Scheme


PCB direct plug - CDDC 1,5/10-PV-3,5 - 1016521


Approvals

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 | 150 V | 300 V |
| Nominal current IN | 8 A | 8 A |
| mm ² /AWG/kcmil | 26-16 | 26-16 |

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung  http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx 40044617 | |
| Nominal voltage UN | 160 V |
| Nominal current IN | 8 A |
| mm ² /AWG/kcmil | 0.14-1.5 |

| |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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



Additional products

PCB direct plug - CDDC 1,5/10-PV-3,5 - 1016521

Accessories

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
