1850000

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Flange cover, fitted on the left and right of PCVK 4-7,62 for reliable screw connection of plugs with screw flanges, pitch: 7.62 mm, color: green

Your advantages

- Well-known connection principle allows worldwide use
- Direct plug-in block for DIN rail mounting

Commercial data

| Item number | 1850000 |
|--------------------------------------|---------------------|
| Packing unit | 50 рс |
| Minimum order quantity | 50 рс |
| Sales key | AA04 |
| Product key | AADMBB |
| Catalog page | Page 521 (C-1-2013) |
| GTIN | 4017918110253 |
| Weight per piece (including packing) | 4.169 g |
| Weight per piece (excluding packing) | 4.169 g |
| Customs tariff number | 85389099 |
| Country of origin | PL |

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Technical data

Product properties

| Product line | COMBICON Connectors L |
|-----------------------|-----------------------|
| Product type | DIN rail connector |
| Product family | PCVK 4-F |
| Number of positions | 1 |
| Pitch | 7.62 mm |
| Number of connections | 1 |
| Number of rows | 1 |
| Mounting flange | Threaded flange |
| Number of potentials | 1 |

Electrical properties

| Nominal current I _N | 20 A |
|--------------------------------|--------|
| Nominal voltage U _N | 630 V |
| Degree of pollution | 3 |
| Contact resistance | 0.9 mΩ |
| Rated voltage (III/3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |

Connection data

| Connection technology | |
|---|---------------------------------------|
| Connector system | COMBICON PC 4 |
| Nominal cross section | 4 mm² |
| Contact connection type | Pin |
| Interlock | |
| Locking type | without |
| Mounting flange | without |
| Conductor connection | |
| Connection method | Screw connection with tension sleeve |
| Connection direction of the conductor to plug-in direction | 0 ° |
| Conductor cross section rigid | 0.2 mm ² 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² 4 mm ² |
| Conductor cross section AWG | 24 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 4 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 4 mm² |



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| 2 conductors with same cross section, solid | 0.25 mm² 2.5 mm² |
|---|--|
| 2 conductors with same cross section, flexible | 0.25 mm ² 2.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² 2.5 mm ² |
| Stripping length | 10 mm |
| Tightening torque | 0.5 Nm 0.6 Nm |

Mounting

| Mounting type | DIN rail |
|-----------------------|-------------|
| Drive form screw head | Slotted (L) |
| Drive form screw head | Slotted (L) |

Material specifications

Material data - contact

| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
|--|--|
| Contact material | Cu alloy |
| Surface characteristics | hot-dip tin-plated |
| Metal surface terminal point (top layer) | Tin (4 - 8 μm Sn) |
| Metal surface contact area (top layer) | Tin (4 - 8 μm Sn) |

Material data - housing

| Color (Housing) | green (6021) |
|---|--------------|
| Insulating material | PA |
| Insulating material group | 1 |
| 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 |

Notes

Notes on operation

In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Dimensions

Dimensional drawing





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| Pitch | 7.62 mm |
|------------|---------|
| Width [w] | 7.62 mm |
| Length [I] | 41.2 mm |

Mechanical tests

Test for conductor damage and slackening

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|---|-----------------------------|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| Pull-out test | |
| Specification | IEC 60999-1:1999-11 |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 0.2 mm² / solid / > 10 N |
| | 0.2 mm² / flexible / > 10 N |
| | 4 mm² / solid / > 60 N |
| | 4 mm² / flexible / > 60 N |
| Insertion and withdrawal forces | |
| Result | Test passed |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 7 N |
| Withdraw strength per pos. approx. | 4 N |
| Torque test | |
| Specification | IEC 60999-1:1999-11 |
| Contact holder in insert | |
| Specification | IEC 60512-15-1:2008-05 |
| Contact holder in insert | Test passed |
| Requirements >20 N | |
| Resistance of inscriptions | |
| Specification | IEC 60068-2-70:1995-12 |
| Result | Test passed |
| Polarization and coding | |
| Specification | IEC 60512-13-5:2006-02 |
| Result | Test passed |
| Visual inspection | |
| Specification | IEC 60512-1-1:2002-02 |
| Result | Test passed |
| | |
| Dimension check | |
| Specification | IEC 60512-1-2:2002-02 |
| Result | Test passed |

Electrical tests



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| Thermal test Test group C | |
|--|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 12 |
| Insulation resistance | |
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Air clearances and creepage distances | |
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | 1 |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |
| minimum clearance value - non-homogenous field (III/3) | 5.5 mm |
| minimum creepage distance (III/3) | 6.3 mm |
| Rated insulation voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |
| minimum clearance value - non-homogenous field (III/2) | 5.5 mm |
| minimum creepage distance (III/2) | 3.2 mm |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| minimum clearance value - non-homogenous field (II/2) | 5.5 mm |
| minimum creepage distance (II/2) | 5 mm |

Environmental and real-life conditions

| Vibration test | |
|--|-------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz 60.1 Hz) |
| Sweep speed | 5g (60.1 Hz 150 Hz) |
| Test duration per axis | 2.5 h |
| Durability test | |
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 7.3 kV |
| Contact resistance R ₁ | 0.9 mΩ |
| Contact resistance R ₂ | 1 mΩ |
| Insertion/withdrawal cycles | 25 |

Climatic test

| Oinfatio test | | |
|------------------|--|--|
| Specification | ISO 6988:1985-02 | |
| Corrosive stress | 0.2 $dm^3 SO_2$ on 300 dm^3 /40 °C/1 cycle | |
| Thermal stress | 100 °C/168 h | |



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| Power-frequency withstand voltage | 3.31 kV |
|---|---|
| mbient conditions | |
| Ambient temperature (operation) | -40 $^\circ\text{C}$ 100 $^\circ\text{C}$ (dependent on the derating curve) |
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Relative humidity (storage/transport) | 30 % 70 % |
| Ambient temperature (assembly) | -5 °C 100 °C |

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Classifications

ECLASS

| ECLASS-11.0 | 27141135 |
|-------------|----------|
| ECLASS-12.0 | 27141135 |
| ECLASS-13.0 | 27250302 |

ETIM

| | ETIM 9.0 | EC001041 | | | |
|----|-------------|----------|--|--|--|
| UN | UNSPSC | | | | |
| | UNSPSC 21.0 | 39121400 | | | |

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Environmental product compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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