1717732

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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 630 V, nominal cross section: 1.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: GMKDS 1,5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

Your advantages

- · Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Larger pitch for increased voltage requirements
- · The latching on the side enables various numbers of positions to be combined

Commercial data

| Item number | 1717732 |
|--------------------------------------|---------------------|
| Packing unit | 250 pc |
| Minimum order quantity | 250 pc |
| Sales key | AA12 |
| Product key | AALFGB |
| Catalog page | Page 121 (C-1-2013) |
| GTIN | 4017918024666 |
| Weight per piece (including packing) | 4.931 g |
| Weight per piece (excluding packing) | 4.652 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |



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Technical data

Product properties

| Туре | PC terminal block can be aligned |
|---------------------------|----------------------------------|
| Product line | COMBICON Terminals S |
| Product type | Printed circuit board terminal |
| Product family | GMKDS 1,5 |
| Number of positions | 3 |
| Pitch | 7.62 mm |
| Number of connections | 3 |
| Number of rows | 1 |
| Number of potentials | 3 |
| Pin layout | Linear pinning |
| Solder pins per potential | 1 |

Electrical properties

| Nominal current I _N | 17.5 A |
|--------------------------------|--------|
| Nominal voltage U _N | 630 V |
| Degree of pollution | 3 |
| 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 | |
|---|---|
| Туре | PC terminal block can be aligned |
| Nominal cross section | 1.5 mm ² |
| Conductor connection | |
| Connection method | Screw connection with tension sleeve |
| Conductor cross section rigid | 0.14 mm² 1.5 mm² |
| Conductor cross section flexible | 0.14 mm ² 1.5 mm ² |
| Conductor cross section AWG | 26 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² 1 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 1 mm² |
| 2 conductors with same cross section, solid | 0.14 mm ² 1 mm ² |
| 2 conductors with same cross section, flexible | 0.14 mm ² 0.75 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² 0.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN | 0.5 mm ² 1 mm ² |

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| ferrule with plastic sleeve | |
|-----------------------------|---------------|
| Stripping length | 6.5 mm |
| Tightening torque | 0.5 Nm 0.6 Nm |

Mounting

| Mounting type | Wave soldering |
|-----------------------|----------------|
| Pin layout | Linear pinning |
| 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 | Tin-plated |
| Metal surface terminal point (top layer) | Tin (4 - 8 μm Sn) |
| Metal surface soldering 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

For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing).

Dimensions

Dimensional drawing

Note on application

7.62 mm



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| Width [w] | 22.86 mm |
|--|---|
| Height [h] | 17.3 mm |
| Length [I] | 9.8 mm |
| Installed height | 13.8 mm |
| Solder pin length [P] | 3.5 mm |
| Pin dimensions | 0.9 x 0.9 mm |
| PCB design | |
| Hole diameter | 1.3 mm |
| echanical tests | |
| Test for conductor damage and slackening | |
| Test for conductor damage and slackening Specification | IEC 60999-1:1999-11 |
| Test for conductor damage and slackening | |
| Test for conductor damage and slackening Specification | IEC 60999-1:1999-11 |
| Test for conductor damage and slackening Specification Result | IEC 60999-1:1999-11 |
| Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force | IEC 60999-1:1999-11 Test passed |
| Test for conductor damage and slackening Specification Result Pull-out test Specification | IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 |

1.5 mm² / flexible / > 40 N

Electrical tests

| Femperature-rise test | |
|--|--|
| Specification | IEC 60947-7-4:2019-01 |
| Requirement temperature-rise test | The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. |
| Short-time withstand current | |
| Specification | IEC 60947-7-4:2019-01 |
| Insulation resistance | |
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ |
| Air clearances and creepage distances | |
| Specification | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| 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 |
| Note on connection cross section | With connected conductor 1.5 mm ² (solid). |
| Rated insulation voltage (III/2) | 630 V |
| | |



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| Rated surge voltage (III/2) | 6 kV |
|--|--------|
| minimum clearance value - non-homogenous field (III/2) | 5.5 mm |
| minimum creepage distance (III/2) | 5.5 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) | 5.5 mm |

Environmental and real-life conditions

| IEC 60068-2-6:2007-12 |
|---|
| 10 - 150 - 10 Hz |
| 1 octave/min |
| 0.35 mm (10 Hz 60.1 Hz) |
| 5g (60.1 Hz 150 Hz) |
| 2.5 h |
| |
| IEC 60695-2-10:2013-04 |
| 850 °C |
| 5 s |
| |
| IEC 60947-7-4:2019-01 |
| |
| -40 °C 105 °C (Depending on the current carrying capacity/derating curve) |
| -40 °C 70 °C |
| 30 % 70 % |
| |
| -5 °C 100 °C |
| |
| |
| |

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Classifications

ECLASS

| ECLASS-12.0 27460101 ECLASS-13.0 27460101 | ECLASS-11.0 | 27460101 |
|---|-------------|----------|
| ECLASS-13.0 27460101 | ECLASS-12.0 | 27460101 |
| | ECLASS-13.0 | 27460101 |

ETIM

| | ETIM 9.0 | EC002643 | | |
|--------|-------------|----------|--|--|
| UNSPSC | | | | |
| | UNSPSC 21.0 | 39121400 | | |

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Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
| | No hazardous substances above threshold values |

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