

1718618

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PCB terminal block, nominal current: 16 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: GSMKDSN 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: 45 °, 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
- · Extremely small design for the respective conductor cross section
- · Angled connection enables multi-row arrangement on the PCB
- · Larger pitch for increased voltage requirements
- The latching on the side enables various numbers of positions to be combined

Commercial data

| Item number | 1718618 |
|--------------------------------------|---------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AA12 |
| Product key | AALFHB |
| Catalog page | Page 119 (C-1-2013) |
| GTIN | 4017918024833 |
| Weight per piece (including packing) | 4.093 g |
| Weight per piece (excluding packing) | 3.693 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 | GSMKDSN 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 | 16 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 mm² 1.5 mm² |
| Conductor cross section AWG | 26 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 1.5 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 1.5 mm² |
| 2 conductors with same cross section, solid | 0.14 mm² 0.75 mm² |
| 2 conductors with same cross section, flexible | 0.14 mm² 0.75 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² 0.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN | 0.5 mm² 1 mm² |



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| mm |
|-------------|
| 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 (5 - 7 µm Sn) |
| Metal surface terminal point (middle layer) | Nickel (2 - 3 µm Ni) |
| Metal surface soldering area (top layer) | Tin (5 - 7 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (2 - 3 µm Ni) |

Material data - housing

| Color (Housing) | green (6021) |
|--|--------------|
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V2 |

Notes

| Note on application | 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 bousing) |
|---------------------|--|
| | (held with one hand, support on the housing). |

Dimensions

| Dimensional drawing | ph ph |
|---------------------|----------|
| Pitch | 7.62 mm |
| Width [w] | 22.86 mm |
| Height [h] | 14.5 mm |



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Length [I]

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Insulating material group

Rated insulation voltage (III/3)

minimum creepage distance (III/3)

minimum creepage distance (III/2)

Rated insulation voltage (III/2)
Rated surge voltage (III/2)

Rated surge voltage (III/3)

Comparative tracking index (IEC 60112)

minimum clearance value - non-homogenous field (III/3)

minimum clearance value - non-homogenous field (III/2)

| Length [I] | 12 mm |
|---|--|
| Installed height | 11 mm |
| Solder pin length [P] | 3.5 mm |
| Pin dimensions | 1 x 0.5 mm |
| PCB design | |
| Hole diameter | 1.3 mm |
| Mechanical tests | |
| Test for conductor damage and slackening | |
| 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 | 0.14 mm² / solid / > 10 N |
| setpoint/actual value | 0.14 mm² / flexible / > 10 N |
| | 1.5 mm² / solid / > 40 N |
| | 1.5 mm² / flexible / > 40 N |
| Electrical tests | |
| Temperature-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 |
| Inculation registeres | |
| Insulation resistance Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ |
| indutation resistance, neighboring positions | - 0 19122 |
| Air clearances and creepage distances | |
| Specification | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| | |

CTI 600

500 V

6 kV

5.5 mm

6.3 mm 630 V

6 kV

5.5 mm

5.5 mm

12 mm



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| 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

| 1/ | ın | ra | tı | 1 | n | te | ct |
|----|----|----|----|---|---|----|----|
| | | | | | | | |

| 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 |

Glow-wire test

| Specification | IEC 60695-2-10:2013-04 |
|------------------|------------------------|
| Temperature | 850 °C |
| Time of exposure | 5 s |

Aging

| Specification | IEC 60947-7-4:2019-01 |
|---------------|-----------------------|
| | |

Ambient conditions

| Ambient temperature (operation) | -40 °C 105 °C (Depending on the current carrying capacity/derating curve) |
|---|---|
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Relative humidity (storage/transport) | 30 % 70 % |
| Ambient temperature (assembly) | -5 °C 100 °C |

Packaging specifications

| Type of packaging | packed in cardboard | |
|-------------------|---------------------|--|



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Classifications

ECLASS

| | ECLASS-11.0 | 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

| REACh SVHC | Lead 7439-92-1 | |
|------------|--|--|
| | | |
| China RoHS | Environmentally Friendly Use Period = 50 years | |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" | |

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