

1782899

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PCB terminal block, nominal current: 2 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm², number of potentials: 19, number of rows: 1, number of positions per row: 19, product range: PTSA 0,5, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Zigzag pinning W, Solder pin [P]: 3.6 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Offset soldering legs, two-rowed

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Angled connection enables multi-row arrangement on the PCB

Commercial data

| Item number | 1782899 |
|--------------------------------------|--------------------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | AAKBDA |
| GTIN | 4046356562652 |
| Weight per piece (including packing) | 7.278 g |
| Weight per piece (excluding packing) | 7.258 g |
| Country of origin | PL |



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Technical data

Product properties

| Product type | Printed circuit board terminal |
|---------------------------|--------------------------------|
| Product family | PTSA 0,5 |
| Product line | COMBICON Terminals XS |
| Туре | PC termination block |
| Number of positions | 19 |
| Pitch | 2.5 mm |
| Number of connections | 19 |
| Number of rows | 1 |
| Number of potentials | 19 |
| Pin layout | Zigzag pinning W |
| Solder pins per potential | 1 |

Electrical properties

| Nominal current I _N | 2 A |
|--------------------------------|--------|
| Nominal voltage U _N | 250 V |
| Degree of pollution | 3 |
| Rated voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 400 V |
| Rated surge voltage (II/2) | 2.5 kV |

Connection data

Connection technology

| Туре | PC termination block |
|-----------------------|----------------------|
| Nominal cross section | 0.5 mm² |
| | |

Conductor connection

| Connection method | Push-in spring connection |
|----------------------------------|---|
| Conductor cross section rigid | 0.14 mm² 0.5 mm² |
| Conductor cross section flexible | 0.2 mm ² 0.5 mm ² |
| Conductor cross section AWG | 24 20 |
| Stripping length | 9 mm |

Mounting

| Mounting type | Wave soldering |
|---------------|------------------|
| Pin layout | Zigzag pinning W |

Material specifications



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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 soldering area (top layer) | Tin (4 - 8 µm Sn) |

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 | 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

| Dimensional drawing | n n |
|-----------------------|---------------|
| Pitch | 2.5 mm |
| Width [w] | 49 mm |
| Height [h] | 16.7 mm |
| Length [I] | 12 mm |
| Installed height | 13.1 mm |
| Solder pin length [P] | 3.6 mm |
| Pin dimensions | 0.4 x 0.75 mm |
| PCB design | |
| Pin spacing | 2.5 mm |
| Hole diameter | 1 mm |

Mechanical tests

Connection test

Specification

| Specification | IEC 60998-2-2:1991-10 |
|--|-----------------------|
| Result | Test passed |
| Test for conductor damage and slackening | |

IEC 60998-2-2:1991-10



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| Result | Test passed |
|---|-----------------------------|
| Pull-out test | |
| Specification | IEC 60998-2-2:1991-10 |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 0.14 mm² / solid / > 7 N |
| | 0.2 mm² / flexible / > 10 N |
| | 0.5 mm² / solid / > 30 N |
| | 0.5 mm² / flexible / > 30 N |

Electrical tests

Temperature-rise test

| Specification | IEC 60998-2-1:1990-04 |
|-----------------------------------|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| | |

Insulation resistance

| Specification | IEC 60998-2-2:1991-10 |
|--|-----------------------|
| Insulation resistance, neighboring positions | 10 ⁹ Ω |

Air clearances and creepage distances |

| Specification | IEC 60664-1:2007-04 |
|--|---------------------|
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 2 mm |
| Rated insulation voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 1.5 mm |
| Rated insulation voltage (II/2) | 400 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 2 mm |

Environmental and real-life conditions

Vibration test

| Specification | IEC 60068-2-6:1995-03 |
|------------------------|-------------------------|
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz 60.1 Hz) |
| Acceleration | 5g (60.1 Hz 150 Hz) |
| Test duration per axis | 2.5 h |

Glow-wire test



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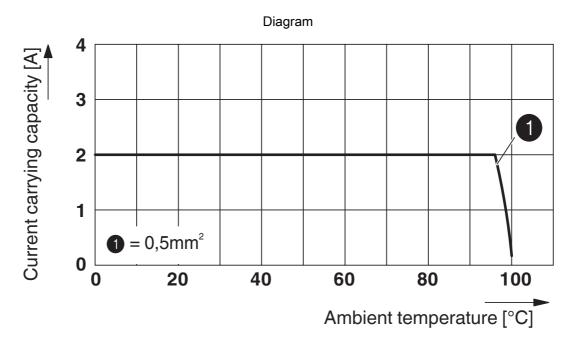
| Specification | IEC 60998-2-2:1991-10 |
|---|-----------------------|
| Temperature | 850 °C |
| Time of exposure | 5 s |
| Ambient conditions | |
| Ambient temperature (operation) | -40 °C 85 °C |
| Ambient temperature (storage/transport) | -40 °C 70 °C |
| Relative humidity (storage/transport) | 30 % 70 % |
| Ambient temperature (assembly) | -5 °C 55 °C |
| ackaging specifications | |
| Type of packaging | packed in cardboard |



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Drawings



Derating diagram for 5 pins;reduction factor=1



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Classifications

UNSPSC 21.0

ECLASS

| ECLASS-11.0 | 27460101 |
|-------------|----------|
| ECLASS-12.0 | 27460101 |
| ECLASS-13.0 | 27460101 |
| ETIM | |
| ETIM 9.0 | EC002643 |
| UNSPSC | |

39121400



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Environmental product compliance

| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--|
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |



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Accessories

SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/us/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com