

2200320

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PCB terminal block, nominal current: 22 A, rated voltage (III/2): 250 V, nominal cross section: 2.5 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: FKDSO 2,5/..-R, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: light grey, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Defined contact force ensures that contact remains stable over the long term
- · Push-in technology for quick and easy wiring
- · Orthogonal alignment of the terminal block with the PCB for optimum accessibility in DIN-rail-mounted devices

Commercial data

| Item number | 2200320 |
|--------------------------------------|---------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AC08 |
| Product key | ACHADA |
| Catalog page | Page 153 (C-1-2013) |
| GTIN | 4046356563857 |
| Weight per piece (including packing) | 5.35 g |
| Weight per piece (excluding packing) | 4.93 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |



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Technical data

Product properties

| Туре | PC termination block |
|---------------------------|--------------------------------|
| Product type | Printed circuit board terminal |
| Product family | FKDSO 2,5/R |
| Number of positions | 4 |
| Pitch | 5 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Number of potentials | 4 |
| Pin layout | Linear pinning |
| Solder pins per potential | 1 |

Electrical properties

| Nominal current I _N | 22 A |
|--------------------------------|-------|
| Nominal voltage U _N | 250 V |
| Degree of pollution | 3 |
| Rated voltage (III/3) | 250 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 4 kV |
| Rated voltage (II/2) | 630 V |
| Rated surge voltage (II/2) | 4 kV |

Connection data

Connection technology

| Nominal cross section 2 | 2.5 mm² |
|-------------------------|---------|
|-------------------------|---------|

Conductor connection

| Connection method | Push-in spring connection |
|---|---|
| Conductor cross section rigid | 0.2 mm² 2.5 mm² |
| Conductor cross section flexible | 0.2 mm² 2.5 mm² |
| Conductor cross section AWG | 24 14 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 2.5 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 2.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² 1.5 mm ² |
| Stripping length | 10 mm |

Mounting

| Mounting type | Wave soldering |
|---------------|----------------|
| Pin layout | Linear pinning |



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| Proce | neeina | notae |
|--------|--------|--------|
| 1 1000 | 331119 | 110103 |

| Process | Wave soldering |
|---------|----------------|
|---------|----------------|

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 soldering area (top layer) | Tin (5 - 7 μm Sn) |

Material data - housing

| Color (Housing) | light grey (7035) |
|---|-------------------|
| 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 | PBT GF |
|--|--------|
| Insulating material group | Illa |
| CTI according to IEC 60112 | 275 |
| Flammability rating according to UL 94 | V0 |

Dimensions

| Dimensional drawing | n n |
|-----------------------|------------|
| Pitch | 5 mm |
| Width [w] | 20.9 mm |
| Height [h] | 19.05 mm |
| Length [I] | 18.8 mm |
| Solder pin length [P] | 3.5 mm |
| Pin dimensions | 0.8 x 1 mm |
| PCB design | |

| Hole diameter | 1.4 mm |
|---------------|--------|
|---------------|--------|



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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 setpoint/actual value | $0.2 \text{ mm}^2 / \text{ solid } / > 10 \text{ N}$ |
| | 2.5 mm² / solid / > 50 N |
| | 0.2 mm² / flexible / > 10 N |
| | 4 mm² / flexible / > 60 N |

Electrical tests

Temperature-rise test

| Specification | IEC 60947-7-4:2013-08 |
|--|--|
| 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 60947-7-4:2013-08 |
| nsulation resistance | |
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 1 TΩ |
| vir clearances and creepage distances | |
| Specification | IEC 60947-1:2007-06 + A1:2010-12 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 250 V |
| Rated surge voltage (III/3) | 4 kV |
| minimum clearance value - non-homogenous field (III/3) | 3 mm |
| minimum creepage distance (III/3) | 3.2 mm |
| Rated insulation voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 4 kV |
| minimum clearance value - non-homogenous field (III/2) | 3 mm |
| minimum creepage distance (III/2) | 1.25 mm |
| Rated insulation voltage (II/2) | 630 V |
| Rated surge voltage (II/2) | 4 kV |
| minimum clearance value - non-homogenous field (II/2) | 3 mm |
| minimum creepage distance (II/2) | 3.2 mm |

Environmental and real-life conditions



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Type of packaging

| 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 |
| low-wire test | |
| Specification | IEC 60695-2-10:2013-04 |
| Temperature | 850 °C |
| Time of exposure | 5 s |
| ging | |
| Specification | IEC 60947-7-4:2013-08 |
| mbient conditions | |
| Ambient temperature (operation) | -40 °C 105 °C (Depending on the current carrying capacity/derating curve) |
| Ambient temperature (storage/transport) | -40 °C 55 °C |
| Relative humidity (storage/transport) | 30 % 70 % |
| Ambient temperature (assembly) | -5 °C 100 °C |

packed in cardboard



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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

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

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