

1263268

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PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 3, product range: TFKC 2,5/..-ST, pitch: 5.08 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Potentials can be easily looped through ideal for BUS applications
- · Intuitive operation due to color-coded actuating push button
- · Can be combined with the MSTB 2,5 range
- · Quick and convenient testing using integrated test option

Commercial data

| Item number | 1263268 |
|--------------------------------------|---------------|
| Packing unit | 50 pc |
| Minimum order quantity | 1,000 pc |
| Product key | AACFMA |
| GTIN | 4063151375911 |
| Weight per piece (including packing) | 6.84 g |
| Weight per piece (excluding packing) | 6.827 g |
| Country of origin | BG |



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Technical data

Product properties

| Product line | COMBICON Connectors M |
|---------------------|-----------------------|
| Product type | PCB connector |
| Product family | TFKC 2,5/ST |
| Number of positions | 3 |
| Pitch | 5.08 mm |
| Number of rows | 1 |

Electrical properties

| Nominal current I _N | 12 A |
|--------------------------------|-------|
| Nominal voltage U _N | 320 V |
| Degree of pollution | 3 |
| Contact resistance | 2 mΩ |
| Rated voltage (III/3) | 320 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| Rated voltage (II/2) | 630 V |
| Rated surge voltage (II/2) | 4 kV |
| Conductor connection I2 / I3 | |

| Current carrying capacity | 24 A |
|---------------------------|------|
|---------------------------|------|

Plug-in contact I1

| Current carrying capacity | 12 A |
|---------------------------|------|
|---------------------------|------|

Connection data

Connection technology

| Туре | Bus plug component |
|-------------------------|--------------------|
| Connector system | COMBICON MSTB 2,5 |
| Nominal cross section | 2.5 mm² |
| Contact connection type | Socket |

Interlock

| Locking type | without |
|-----------------|---------|
| Mounting flange | without |

Conductor connection

| Conductor Connection | |
|------------------------------------|---------------------------|
| Connection method | Push-in spring connection |
| Conductor/PCB connection direction | 0 ° |
| 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 12 |



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| 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 |
| Cylindrical gauge a x b / diameter | 2.8 mm x 2.0 mm / 2.0 mm |
| Stripping length | 10 mm |
| specifications for ferrules without insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| specifications for ferrules with insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| Aterial data - contact Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC |
| | ****** |
| 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) |
| laterial 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 | |
| Color (Actuating element) | orange (2003) |
| Insulating material | PBT |
| | |

Illa

275

V0

Dimensions

Insulating material group
CTI according to IEC 60112

Flammability rating according to UL 94



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| Dimensional drawing | h |
|---|---|
| Pitch | 5.08 mm |
| Width [w] | 15.14 mm |
| Height [h] | 22.1 mm |
| Length [I] | 25.7 mm |
| tes | |
| 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 |
| chanical tests | |
| Conductor connection | |
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| est for conductor damage and slackening | |
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| Repeated connection and disconnection | |
| 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 | 0.2 mm² / solid / > 10 N |
| setpoint/actual value | 0.2 mm² / flexible / > 10 N |
| | 2.5 mm² / solid / > 50 N |
| | 2.5 mm² / flexible / > 50 N |
| nsertion and withdrawal forces | |
| Result | Test passed |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 10 N |
| Withdraw strength per pos. approx. | 9.5 N |
| William Strength per pos. approx. | |
| | |
| Resistance of inscriptions Specification | IEC 60068-2-70:1995-12 |



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Specification

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| 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 |
| nvironmental and real-life conditions | |
| | |
| Vibration test | |
| Vibration test Specification | IEC 60068-2-6:2007-12 |
| | IEC 60068-2-6:2007-12 10 - 150 - 10 Hz |
| Specification | |
| Specification Frequency | 10 - 150 - 10 Hz |
| Specification Frequency Sweep speed | 10 - 150 - 10 Hz 1 octave/min |
| Specification Frequency Sweep speed Amplitude | 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) |
| Specification Frequency Sweep speed Amplitude Sweep speed | 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) |
| Specification Frequency Sweep speed Amplitude Sweep speed Test duration per axis | 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) |
| Specification Frequency Sweep speed Amplitude Sweep speed Test duration per axis Durability test | 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h |
| Specification Frequency Sweep speed Amplitude Sweep speed Test duration per axis Durability test Specification | 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h |
| Specification Frequency Sweep speed Amplitude Sweep speed Test duration per axis Durability test Specification Impulse withstand voltage at sea level | 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 60512-9-1:2010-03 4.8 kV |

IEC 60512-13-5:2006-02

Climatic 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 |
| Power-frequency withstand voltage | 2.21 kV |

Ambient conditions

| Ambient temperature (operation) | -40 °C 100 °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 |

Electrical tests

Thermal test | Test group C

| Specification | IEC 60512-5-1:2002-02 | | |
|----------------------------|-----------------------|--|--|
| Tested number of positions | 10 | | |
| Insulation resistance | | | |
| Specification | IEC 60512-3-1:2002-02 | | |



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| | 12 |
|--|---------------------|
| Insulation resistance, neighboring positions | 10 ¹² Ω |
| emperature cycles | |
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| r 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) | 320 V |
| Rated surge voltage (III/3) | 4 kV |
| minimum clearance value - non-homogenous field (III/3) | 3 mm |
| minimum creepage distance (III/3) | 4 mm |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| minimum clearance value - non-homogenous field (III/2) | 3 mm |
| minimum creepage distance (III/2) | 3 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 |



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Classifications

ECLASS

| | ECLASS-11.0 | 27460202 | | |
|--------|-------------|----------|--|--|
| | ECLASS-12.0 | 27460202 | | |
| | ECLASS-13.0 | 27460202 | | |
| ETIM | | | | |
| | ETIM 9.0 | EC002638 | | |
| | 211111 0:0 | 25002500 | | |
| 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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