1976010

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MSTB 2,5/..-STZ, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, 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

- · Well-known connection principle allows worldwide use
- · Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- Allows connection of two conductors

Commercial data

| Item number | 1976010 |
|--------------------------------------|--------------------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA03 |
| Product key | AACAGC |
| GTIN | 4017918950408 |
| Weight per piece (including packing) | 6.407 g |
| Weight per piece (excluding packing) | 5.5 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Product properties

| Product type | PCB connector |
|-----------------------|-----------------------|
| Product family | MSTB 2,5/STZ |
| Product line | COMBICON Connectors M |
| Number of positions | 3 |
| Pitch | 5.08 mm |
| Number of connections | 3 |
| Number of rows | 1 |
| Number of potentials | 3 |
| Mounting flange | without |

Electrical properties

| Nominal current I _N | 12 A |
|--------------------------------|-------|
| Nominal voltage U _N | 320 V |
| Degree of pollution | 3 |
| Rated voltage (III/3) | 250 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 |

Connection data

Connection technology

| Туре | Standard |
|--|--|
| Connector system | COMBICON MSTB 2,5 |
| Nominal cross section | 2.5 mm ² |
| Contact connection type | Socket |
| terlock | |
| Locking type | without |
| Mounting flange | without |
| | |
| onductor connection | |
| onductor connection Connection method | Screw connection with tension sleeve |
| | Screw connection with tension sleeve |
| Connection method | |
| Connection method Conductor/PCB connection direction | 0 ° |
| Connection method Conductor/PCB connection direction Conductor cross section rigid | 0 ° 0.2 mm ² 2.5 mm ² |
| Connection method Conductor/PCB connection direction Conductor cross section rigid Conductor cross section flexible | 0° 0.2 mm ² 2.5 mm ² 0.2 mm ² 2.5 mm ² |

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| 2 conductors with same cross section, solid | 0.2 mm ² 1 mm ² |
|--|---|
| 2 conductors with same cross section, flexible | 0.2 mm² 1.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² 1 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² 1.5 mm² |
| Cylindrical gauge a x b / diameter | 2.8 mm x 2.0 mm / 2.4 mm |
| Stripping length | 7 mm |
| Tightening torque | 0.5 Nm 0.6 Nm |
| pecifications for ferrules without insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| pecifications for ferrules with insulating collar | |
| | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| recommended crimping tool terial specifications laterial data - contact Note | WEEE/RoHS-compliant, free of whiskers according to IEC |
| terial specifications laterial data - contact Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| terial specifications laterial data - contact Note Contact material | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy |
| terial specifications laterial data - contact Note Contact material Surface characteristics | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated |
| terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 µm Sn) |
| terial specifications laterial data - contact Note Contact material Surface characteristics | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated |
| terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 µm Sn) |
| terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 µm Sn) |
| terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) laterial data - housing | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 µm Sn) Tin (5 - 7 µm Sn) |
| terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) laterial data - housing Color (Housing) | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 µm Sn) Tin (5 - 7 µm Sn) green (6021) |
| terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) laterial data - housing Color (Housing) Insulating material | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (5 - 7 µm Sn) Tin (5 - 7 µm Sn) green (6021) |

| moduling matchai group | • |
|---|--------|
| 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



| Pitch | 5.08 mm |
|------------|----------|
| Width [w] | 15.24 mm |
| Height [h] | 15.5 mm |

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switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

| | Length [I] | 54.3 mm |
|----|-----------------------|---|
| Мс | ounting | |
| | Drive form screw head | Slotted (L) |
| | Drive form screw head | Slotted (L) |
| No | tes | |
| | Notes on operation | In accordance with IEC 61984, COMBICON connectors have no |

Environmental and real-life conditions

| 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

| 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) | 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) | 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 |

Packaging specifications

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



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Approvals

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| CSA Approval ID: 13631 | | | | |
|---------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Use group B | | | | |
| | 300 V | 15 A | 28 - 12 | - |
| Use group D | | | | |
| | 300 V | 10 A | 28 - 12 | - |

| Approval ID: E60425-19931011 | | | | |
|------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Use group B | | | | |
| | 250 V | 12 A | 30 - 12 | - |
| Use group D | | | | |
| | 300 V | 10 A | 30 - 12 | - |

| VDE Zeichengenehmigung Approval ID: 40050694 | | | | |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | 250 V | 12 A | - | 0.2 - 2.5 |

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Classifications

ECLASS

| ECLASS-11.0 | 27460202 |
|-------------|----------|
| ECLASS-12.0 | 27460202 |
| ECLASS-13.0 | 27460202 |

ETIM

| | ETIM 8.0 | EC002638 | | | |
|----|-------------|----------|--|--|--|
| UN | UNSPSC | | | | |
| | UNSPSC 21.0 | 39121400 | | | |

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Environmental product compliance

EU RoHS

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