

1912854

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 16 A (see derating curve), rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MVSTBW 2,5 HC/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5 HC, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations

Commercial data

| Item number | 1912854 |
|--------------------------------------|---------------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AACAKF |
| Product key | AACAKF |
| Catalog page | Page 493 (C-1-2013) |
| GTIN | 4017918191566 |
| Weight per piece (including packing) | 6.88 g |
| Weight per piece (excluding packing) | 6.336 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |



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Technical data

Product properties

| Product type | PCB connector |
|-----------------------|-----------------------|
| Product family | MVSTBW 2,5 HC/ST |
| Product line | COMBICON Connectors M |
| Туре | Standard |
| 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

Properties

| Nominal current I _N | 16 A (see derating curve) |
|--------------------------------|---------------------------|
| Nominal voltage U _N | 320 V |
| 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 HC |
| Nominal cross section | 2.5 mm ² |
| Contact connection type | Socket |

Interlock

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

Conductor connection

| Connection method | Screw connection with tension sleeve |
|---|--------------------------------------|
| Conductor/PCB connection direction | -90 ° |
| 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 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² 2.5 mm² |



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| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² 2.5 mm² |
|---|--------------------|
| 2 conductors with same cross section, solid | 0.2 mm² 1 mm² |
| 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 |
| Stripping length | 7 mm |
| Drive form screw head | Slotted (L) |
| Tightening torque | 0.5 Nm 0.6 Nm |
| Specifications for ferrules without insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| Specifications for ferrules with insulating collar | |
| recommended crimping tool | 1212034 CRIMPFOX 6 |
| | |

Material specifications

Material data - contact

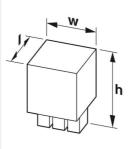
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
|--|--|
| Contact material | Cu alloy |
| Surface characteristics | hot-dip tin-plated |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn) |
| Metal surface contact area (top layer) | Tin (4 - 8 μm Sn) |

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





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| Pitch | 5.08 mm |
|------------|----------|
| Width [w] | 15.24 mm |
| Height [h] | 26 mm |
| Length [I] | 12.6 mm |

Notes

| 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. |

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

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1912854

| cULus Recognized Approval ID: E60425-19931011 | | | | |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| Use group B | | | | |
| | 300 V | 16 A | 30 - 12 | - |
| Use group D | | | | |
| | 300 V | 10 A | 30 - 12 | - |

| VDE approval of drawings Approval ID: 40050079 | | | | |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | 250 V | 16 A | - | 0.2 - 2.5 |



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Classifications

| ECLASS-13.0 | 27460202 | |
|-------------|----------|--|
| ETIM | | |
| ETIM 9.0 | EC002638 | |
| 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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