1703823

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Feed-through connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: Socket, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: DFK-IPC 16/..-STF, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PC 16, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Screw flange, 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
- · Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws
- Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Shroud for professional EMC shield connection on the front of the device
- · Screwable flange for superior mechanical stability

Commercial data

| Item number | 1703823 |
|--------------------------------------|--------------------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA05 |
| Product key | AAEWBB |
| Catalog page | Page 585 (C-1-2013) |
| GTIN | 4017918994662 |
| Weight per piece (including packing) | 84.84 g |
| Weight per piece (excluding packing) | 18.136 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

1703823

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Technical data

Product properties

| Туре | Feed-through header |
|-----------------------|------------------------|
| Product line | COMBICON Connectors XL |
| Product type | Feed-through connector |
| Product family | DFK-IPC 16/STF |
| Number of positions | 7 |
| Pitch | 10.16 mm |
| Number of connections | 7 |
| Number of rows | 1 |
| Mounting flange | Screw flange |
| Number of potentials | 7 |

Electrical properties

| Nominal current I _N | 76 A |
|--------------------------------|--------|
| Nominal voltage U _N | 1000 V |
| Degree of pollution | 3 |
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |

Connection data

| Connection technology | |
|---|---|
| Туре | Feed-through header |
| Connector system | COMBICON PC 16 |
| Nominal cross section | 16 mm² |
| Contact connection type | Socket |
| Interlock | |
| Locking type | Screw locking mechanism |
| Mounting flange | Screw flange |
| Conductor connection | |
| Connection method | Screw connection with tension sleeve |
| Connection direction of the conductor to plug-in direction | 0 ° |
| Conductor cross section rigid | 0.75 mm² 16 mm² |
| Conductor cross section flexible | 0.75 mm² 16 mm² |
| Conductor cross section AWG | 18 6 |
| Conductor cross section flexible, with ferrule without plastic sleeve | $0.5\ mm^2$ 16 mm^2 (Only in connection with CRIMPFOX 16 S) |

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1703823

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| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.5 mm ² 16 mm ² (Only in connection with CRIMPFOX 16 S) |
|---|--|
| 2 conductors with same cross section, solid | 0.75 mm² 6 mm² |
| 2 conductors with same cross section, flexible | 0.75 mm² 6 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² 6 mm² |
| Stripping length | 12 mm |
| Tightening torque | 1.7 Nm 1.8 Nm |

Mounting

| Drive form screw head | Slotted (L) |
|-----------------------|-------------|
| Drive form screw head | Slotted (L) |

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 | Electroplated silver |
| Metal surface terminal point (top layer) | Tin (4 - 8 μm Sn) |
| Metal surface contact area (top layer) | Silver (2 - 4 µm Ag) |

Material data - housing

| 5 | |
|---|--------------|
| Color (Housing) | green (6021) |
| Insulating material | PA |
| Insulating material group | 1 |
| 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 |

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.

Dimensions

Dimensional drawing





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| Pitch | 10.16 mm |
|------------|----------|
| Width [w] | 112.2 mm |
| Height [h] | 32.05 mm |
| Length [I] | 56.4 mm |

Electrical tests

Air 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) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| minimum clearance value - non-homogenous field (III/3) | 8 mm |
| minimum creepage distance (III/3) | 12.5 mm |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2) | 8 kV |
| minimum clearance value - non-homogenous field (III/2) | 8 mm |
| minimum creepage distance (III/2) | 8 mm |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| minimum clearance value - non-homogenous field (II/2) | 5.5 mm |
| minimum creepage distance (II/2) | 5.5 mm |

Environmental and real-life 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 conditions | |
|--|---|---|
| Relative humidity (storage/transport) 30 % 70 % | 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 | Ambient temperature (assembly) | -5 °C 100 °C |

Packaging specifications

| Type of packaging | packed in cardboard |
|--------------------|----------------------|
| i ype of paolaging | publica in balaboard |

1703823

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Classifications

ECLASS

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

ETIM

| | ETIM 9.0 | EC002638 | |
|--------|-------------|----------|--|
| UNSPSC | | | |
| | UNSPSC 21.0 | 39121400 | |

1703823

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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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