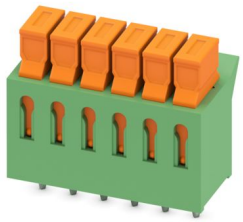
# IDC 0,3/ 6-3,81 - PCB terminal block

1706219

https://www.phoenixcontact.com/us/products/1706219

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PCB terminal block, nominal current: 5 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm$^2$, number of potentials: 6, number of rows: 1, number of positions per row: 6, product range: IDC 0,3, pitch: 3.81 mm, connection method: Displacement connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.4 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

## Your advantages

- Connection without conductor pretreatment for huge time savings
- Intuitive operation due to color-coded actuating push button

## Commercial data

| | |
|---|---|
| Item number | 1706219 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AA11 |
| Product key | AAKJAA |
| GTIN | 4017918116712 |
| Weight per piece (including packing) | 3.848 g |
| Weight per piece (excluding packing) | 3.64 g |
| Customs tariff number | 85369010 |
| Country of origin | BG |

## Technical data

### Product properties

| | |
|---|---|
| Product type | PCB terminal block |
| Product family | IDC 0,3 |
| Product line | COMBICON Terminals XS |
| Type | PC termination block |
| Number of positions | 6 |
| Pitch | 3.81 mm |
| Number of connections | 6 |
| Number of rows | 1 |
| Number of potentials | 6 |
| Pin layout | Linear pinning |
| Solder pins per potential | 1 |

Fitting of components

| | |
|---|---|
| Partial assembly | No |

### Electrical properties

Properties

| | |
|---|---|
| Nominal current $I_N$ | 5 A |
| Nominal voltage $U_N$ | 160 V |
| Rated voltage (III/3) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |

### Connection data

Connection technology

| | |
|---|---|
| Type | PC termination block |
| Nominal cross section | 0.34 mm² |

Conductor connection

| | |
|---|---|
| Connection method | Displacement connection |
| Conductor cross-section rigid | 0.13 mm² ... 0.34 mm² |
| Conductor cross-section flexible | 0.22 mm² ... 0.34 mm² |
| Conductor cross-section AWG | 26 ... 22 |

### Mounting

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

## 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 µm - 7 µm Sn) |
| Metal surface terminal point (middle layer) | Nickel (2 µm - 3 µm Ni) |
| Metal surface soldering area (top layer) | Tin (5 µm - 7 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (2 µm - 3 µm Ni) |

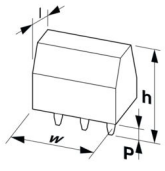
Material data - housing

| | |
|---|---|
| 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 |

Material data – actuating element

| | |
|---|---|
| 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 |  |
| Pitch | 3.81 mm |
| Width [w] | 24.05 mm |
| Height [h] | 22.2 mm |
| Length [l] | 12.4 mm |

| | |
|---|---|
| Installed height | 18.8 mm |
| Solder pin length [P] | 3.4 mm |
| Pin dimensions | 1 x 0.4 mm |

PCB design

| | |
|---|---|
| Hole diameter | 1.3 mm |

## 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) | 160 V |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 2 mm |
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 1.5 mm |
| Rated insulation voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 1.6 mm |

## Environmental and real-life conditions

Ambient conditions

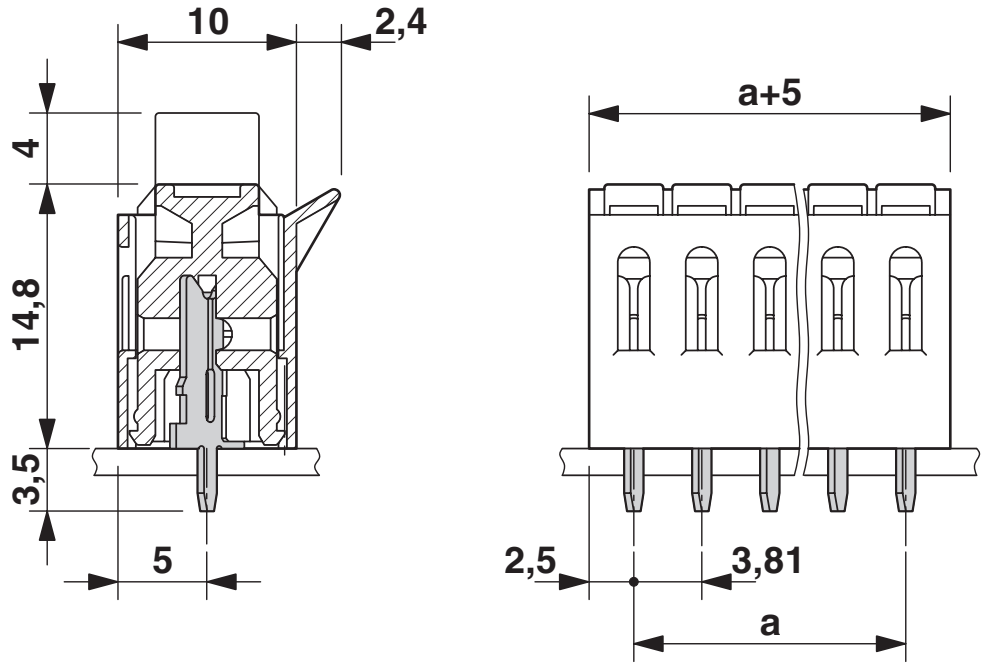
| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |

## Packaging specifications

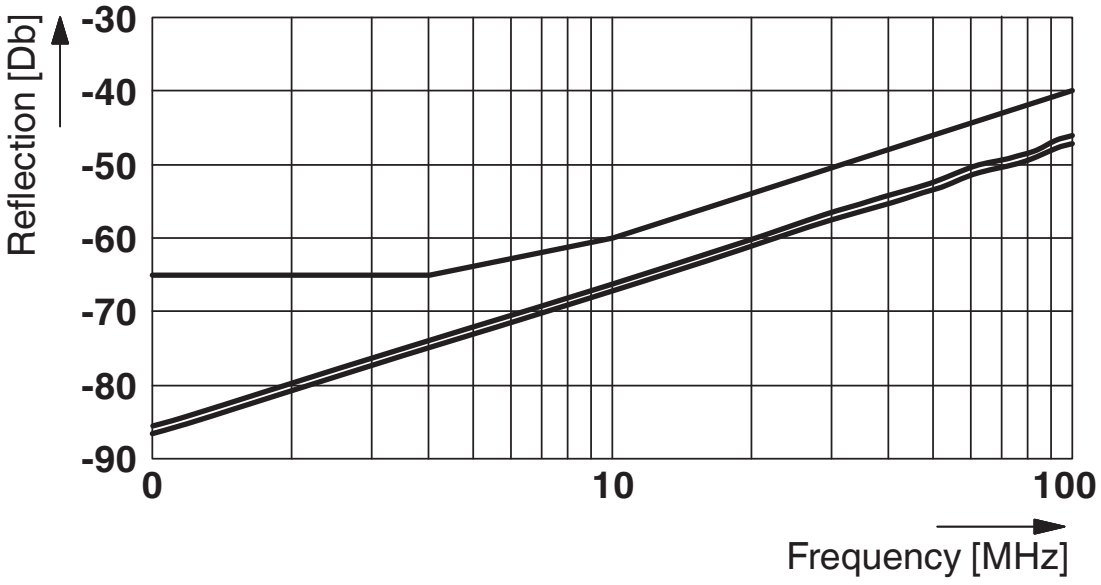
| | |
|---|---|
| Type of packaging | packed in cardboard |

## Drawings

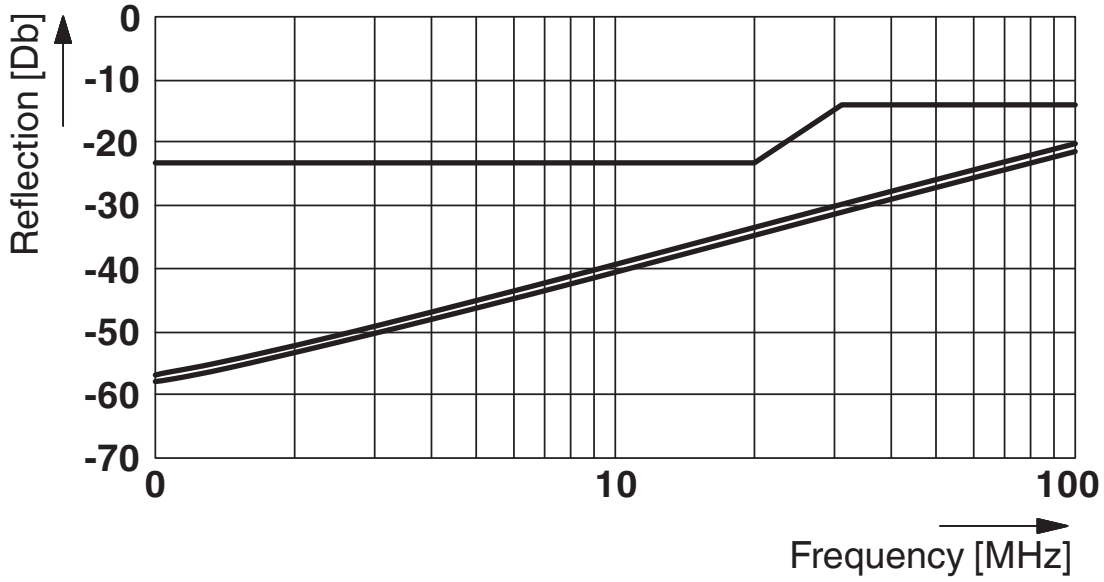
Dimensional drawing



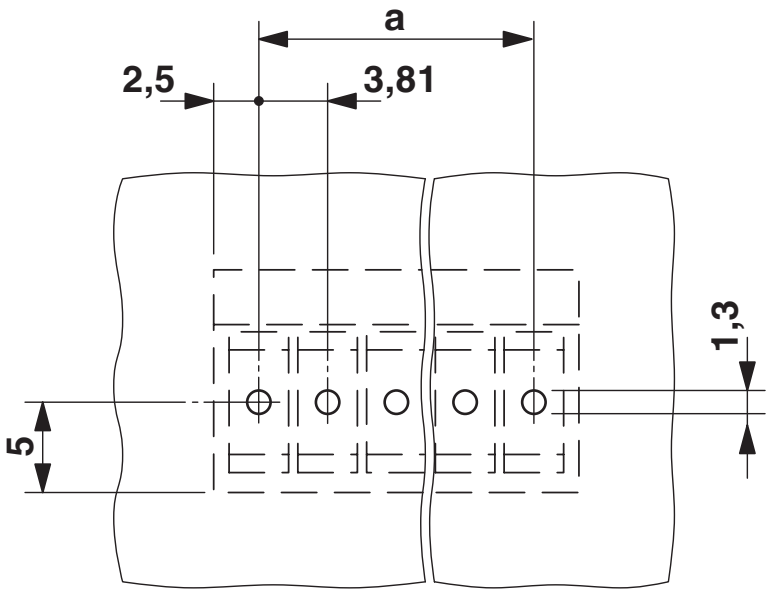

Diagram



Diagram




Drilling plan/solder pad geometry



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1706219

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 5 A | 28 - 22 | - |
| D | | | | |
| | 300 V | 5 A | 28 - 22 | - |

**cULus Recognized**
Approval ID: E60425-19961206

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 250 V | 5 A | 28 - 22 | - |
| D | | | | |
| | 300 V | 5 A | 28 - 22 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27460101 |
| ECLASS-15.0 | 27460101 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002643 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.056 kg CO2e |


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