

FRONT 2,5-H/SA10 - PCB terminal block



1700040
<https://www.phoenixcontact.com/in/products/1700040>

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: FRONT 2,5-H/SA10, pitch: 5 mm, connection method: Front screw connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Operation and conductor connection from one direction enable integration into front of device
- Two solder pins reduce the mechanical strain on the soldering spots
- The latching on the side enables various numbers of positions to be combined

Commercial Data

| | |
|--------------------------------------|--------------------|
| Item number | 1700040 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales Key | AAM |
| Product Key | AAMFDE |
| Catalog Page | Page 113 (CC-2007) |
| GTIN | 4017918022730 |
| Weight per Piece (including packing) | 3.572 g |
| Weight per Piece (excluding packing) | 3.572 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

FRONT 2,5-H/SA10 - PCB terminal block



1700040

<https://www.phoenixcontact.com/in/products/1700040>

Technical Data

Product properties

| | |
|---------------------------|----------------------------------|
| Type | PC terminal block can be aligned |
| Product line | COMBICON Terminals M |
| Product type | Printed circuit board terminal |
| Product family | FRONT 2,5-H/SA10 |
| Number of positions | 1 |
| Pitch | 5 mm |
| Number of connections | 1 |
| Number of rows | 1 |
| Number of potentials | 1 |
| Pin layout | Linear pinning |
| Solder pins per potential | 2 |

Electrical properties

| | |
|-----------------------------|-------|
| Nominal current I_N | 24 A |
| Nominal voltage U_N | 400 V |
| Degree of pollution | 3 |
| Rated voltage (III/3) | 250 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 400 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

| | |
|-----------------------|----------------------------------|
| Type | PC terminal block can be aligned |
| Nominal cross section | 2.5 mm ² |

Conductor connection

| | |
|---|---|
| Connection method | Front screw connection |
| Conductor cross section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 14 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, solid | 0.2 mm ² ... 0.75 mm ² |
| 2 conductors with same cross section, flexible | 0.2 mm ² ... 0.75 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 0.34 mm ² |
| Stripping length | 9 mm |

FRONT 2,5-H/SA10 - PCB terminal block



1700040

<https://www.phoenixcontact.com/in/products/1700040>

| | |
|-------------------|-------------------|
| Tightening torque | 0.4 Nm ... 0.5 Nm |
|-------------------|-------------------|

Mounting

| | |
|-------------------|------------------------|
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Connection method | Front screw connection |

Material specifications

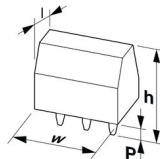
Material data - contact

| | |
|--|--|
| 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 - 7 µm Sn) |
| Metal surface soldering area (top layer) | Tin (5 - 7 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 |  |
| Pitch | 5 mm |
| Width [w] | 7.5 mm |
| Height [h] | 23.5 mm |
| Length [l] | 19.5 mm |
| Installed height | 18.5 mm |
| Solder pin length [P] | 5 mm |
| Pin dimensions | 0.8 x 0.8 mm |

PCB design

| | |
|---------------|--------|
| Pin spacing | 10 mm |
| Hole diameter | 1.2 mm |