

# PCB terminal block - FRONT 2,5-V/SA10 - 1700053

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PC terminal block, Nominal current: 24 A, Nom. voltage: 400 V, Pitch: 5 mm, Number of positions: 1, Connection method: Screw connection, Mounting: Soldering, Conductor/PCB connection direction: 90 °, Color: green, The article can be aligned to create different nos. of positions!



## Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 1   |
| Minimum order quantity | 50  |
| Catalog page           | Page 113 (CC-2007)  |
| GTIN                   | <br>4 017918 022747 |
| Custom tariff number   | 85369010  |
| Country of origin      | GERMANY   |

## Technical data

### Dimensions / positions

|                        |              |
|------------------------|--------------|
| Length                 | 18.5 mm      |
| Height                 | 31 mm        |
| Pitch                  | 5 mm         |
| Number of positions    | 1            |
| Pin dimensions         | 0,8 x 0,8 mm |
| Pin spacing            | 10 mm        |
| Hole diameter          | 1.2 mm       |
| Screw thread           | M2,5         |
| Tightening torque, min | 0.4 Nm       |
| Tightening torque max  | 0.5 Nm       |

### Technical data

|                             |                  |
|-----------------------------|------------------|
| Range of articles           | FRONT 2,5-V/SA10 |
| Insulating material group   | I                |
| Rated surge voltage (III/3) | 4 kV             |
| Rated surge voltage (III/2) | 4 kV             |
| Rated surge voltage (II/2)  | 4 kV             |
| Rated voltage (III/3)       | 250 V            |

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## Technical data

### Technical data

|   |                     |
|---|---------------------|
| Rated voltage (III/2)                   | 400 V               |
| Rated voltage (II/2)                    | 630 V               |
| Connection in acc. with standard        | EN-VDE              |
| Nominal current I <sub>N</sub>          | 24 A                |
| Nominal cross section                   | 2.5 mm <sup>2</sup> |
| Maximum load current                    | 17.5 A              |
| Insulating material                     | PA                  |
| Inflammability class according to UL 94 | V0                  |
| Internal cylindrical gage               | A3                  |
| Stripping length                        | 9 mm                |
| Nominal voltage, UL/CUL Use Group B     | 250 V               |
| Nominal current, UL/CUL Use Group B     | 10 A                |
| Nominal voltage, UL/CUL Use Group C     | 300 V               |
| Nominal current, UL/CUL Use Group C     | 17 A                |
| Nominal voltage, UL/CUL Use Group D     | 300 V               |
| Nominal current, UL/CUL Use Group D     | 10 A                |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.   | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min.            | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.            | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.               | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.               | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.  | 24                   |
| Conductor cross section AWG/kcmil max   | 14                   |
| 2 conductors with same cross section, solid min.                                      | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                                      | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded min.                                   | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                   | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 0.34 mm <sup>2</sup> |
| Minimum AWG according to UL/CUL   | 30                   |
| Maximum AWG according to UL/CUL   | 12                   |

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## Classifications

### eclass

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141109 |
| eCl@ss 4.1 | 27141109 |
| eCl@ss 5.0 | 27141190 |
| eCl@ss 5.1 | 27141190 |
| eCl@ss 6.0 | 27261101 |
| eCl@ss 7.0 | 27440401 |

### etim

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002643 |
| ETIM 5.0 | EC002643 |

### unspsc

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 39121432 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121432 |

## Approvals

### Approvals


#### Approvals

CSA / UL Recognized / cUL Recognized / GOST / GL / RS / GOST / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

|   |       |       |
|---|-------|-------|
|  |       |       |
|   | B     | D     |
| mm <sup>2</sup> /AWG/kcmil  | 24-12 | 24-12 |
| Nominal current I <sub>N</sub>  | 10 A  | 10 A  |
| Nominal voltage U <sub>N</sub>  | 300 V | 300 V |

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## Approvals

UL Recognized

|                            |       | B     | C     | D |
|----------------------------|-------|-------|-------|---|
| mm <sup>2</sup> /AWG/kcmil | 30-12 | 30-12 | 30-12 |   |
| Nominal current IN         | 10 A  | 17 A  | 10 A  |   |
| Nominal voltage UN         | 250 V | 300 V | 300 V |   |

cUL Recognized

|                            |       | B     | C     | D |
|----------------------------|-------|-------|-------|---|
| mm <sup>2</sup> /AWG/kcmil | 30-12 | 30-12 | 30-12 |   |
| Nominal current IN         | 10 A  | 17 A  | 10 A  |   |
| Nominal voltage UN         | 250 V | 300 V | 300 V |   |

GOST

GL

RS

GOST

cULus Recognized

## Accessories

Accessories

Assembly

PCB terminal block - D-FRONT 2,5-V-O.Z. - 1700011



End cover, necessary at the end of a terminal row, 2.5 mm thick, color: green

## PCB terminal block - FRONT 2,5-V/SA10 - 1700053

### Accessories

PCB terminal block - RZ 2,5-FRONT 2,5 V - 1700082



Pitch spacer, raises the pitch by 2.5 mm, interlocks with terminal block of the same shape, color: green

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### Marking

Marker cards - SK 5/3,8:FORTL.ZAHLEN - 0804183



Marker cards, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, For terminal block width: 5 mm

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### Tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge, fully insulated, for plug connectors with 5.0 or 5.08 mm pitch, no. of positions: 2

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### Additional products

PCB terminal block - D-FRONT 2,5-V-O.Z. - 1700011



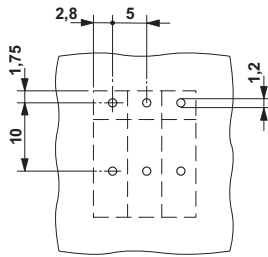
End cover, necessary at the end of a terminal row, 2.5 mm thick, color: green

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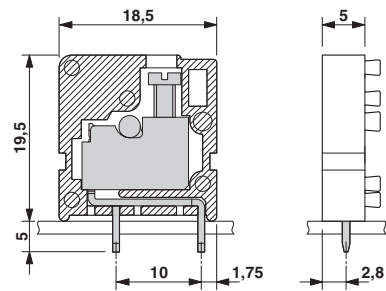
### Drawings

# PCB terminal block - FRONT 2,5-V/SA10 - 1700053

Drilling diagram



Dimensioned drawing



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