

## PCB terminal block - PT 2,5/ 7-7,5-V - 1988008

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PCB terminal block, Nominal current: 32 A, Nom. voltage: 800 V, Pitch: 7.5 mm, Number of positions: 7, Connection method: Screw connection with wire protector, Mounting: Wave soldering, Conductor/PCB connection direction: 90 °, Color: green



The figure shows a 10-position version of the product

### Product Features

- 7.5 mm pitch
- Large terminal block capacity thanks to rectangular clamping space
- Rugged version for larger cross sections and higher voltages
- Highly flexible conductor protection for easy, repeated connection
- Plus/minus screw



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 9.5 g    |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Poland   |

### Technical data

#### Dimensions

|                          |         |
|--------------------------|---------|
| Length                   | 13.5 mm |
| Pitch                    | 7.50 mm |
| Dimension a              | 45 mm   |
| Constructional height    | 13.1 mm |
| Height                   | 9 mm    |
| Length of the solder pin | 4.1 mm  |
| Pin dimensions           | 1,0 mm  |

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## Technical data

### Dimensions

|               |        |
|---------------|--------|
| Pin spacing   | 7.5 mm |
| Hole diameter | 1.3 mm |

### General

|                                        |                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Range of articles                      | PT 2,5/..-V                                                                                               |
| Insulating material group              | I                                                                                                         |
| Rated surge voltage (III/3)            | 6 kV                                                                                                      |
| Rated surge voltage (III/2)            | 6 kV                                                                                                      |
| Rated surge voltage (II/2)             | 6 kV                                                                                                      |
| Rated voltage (III/3)                  | 500 V                                                                                                     |
| Rated voltage (III/2)                  | 800 V                                                                                                     |
| Rated voltage (II/2)                   | 1000 V                                                                                                    |
| Connection in acc. with standard       | EN-VDE                                                                                                    |
| Nominal current $I_N$                  | 32 A                                                                                                      |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                                                                       |
| Maximum load current                   | 32 A (current values dependent on no. of pos., dimensioning of printed circuits, and ambient temperature) |
| Insulating material                    | PA                                                                                                        |
| Solder pin surface                     | Sn                                                                                                        |
| Flammability rating according to UL 94 | V0                                                                                                        |
| Internal cylindrical gage              | A3                                                                                                        |
| Stripping length                       | 6.5 mm                                                                                                    |
| Number of positions                    | 7                                                                                                         |
| Screw thread                           | M3                                                                                                        |
| Tightening torque, min                 | 0.45 Nm                                                                                                   |
| Tightening torque max                  | 0.5 Nm                                                                                                    |

### Connection data

|                                                                            |                     |
|----------------------------------------------------------------------------|---------------------|
| Conductor cross section solid min.                                         | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 4 mm <sup>2</sup>   |
| Conductor cross section flexible min.                                      | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.                                           | 20                  |
| Conductor cross section AWG max.                                           | 10                  |
| 2 conductors with same cross section, solid min.                           | 0.5 mm <sup>2</sup> |

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### Technical data

#### Connection data

|                                                                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 conductors with same cross section, solid max.                                        | 1.5 mm <sup>2</sup>                                                                                                                                                                                                               |
| 2 conductors with same cross section, stranded min.                                     | 0.5 mm <sup>2</sup>                                                                                                                                                                                                               |
| 2 conductors with same cross section, stranded max.                                     | 1.5 mm <sup>2</sup>                                                                                                                                                                                                               |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.5 mm <sup>2</sup>                                                                                                                                                                                                               |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 0.75 mm <sup>2</sup> The technical data regarding clamping with ferrules applies only when using crimping pliers ZA 3. When using ferrules, it is necessary to take into account possible restrictions regarding nominal voltage. |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>                                                                                                                                                                                                               |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> The technical data regarding clamping with ferrules applies only when using crimping pliers ZA 3. When using ferrules, it is necessary to take into account possible restrictions regarding nominal voltage.  |

#### Standards and Regulations

|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CUL    |
| Flammability rating according to UL 94 | V0     |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| 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 |
| eCl@ss 8.0 | 27440401 |
| eCl@ss 9.0 | 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     | 34131203 |

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### Classifications

#### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121432 |
| UNSPSC 13.2  | 39121432 |

### Approvals

#### Approvals

#### Approvals

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / CCA / IECCE CB Scheme / EAC / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

|                                                                                                   |       |       |       |
|---------------------------------------------------------------------------------------------------|-------|-------|-------|
| UL Recognized  |       |       |       |
|                                                                                                   | B     | C     | D     |
| mm²/AWG/kcmil                                                                                     | 20-12 | 20-12 | 20-12 |
| Nominal current I <sub>N</sub>                                                                    | 20 A  | 20 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                    | 300 V | 150 V | 300 V |

|                                                                                                                             |       |
|-----------------------------------------------------------------------------------------------------------------------------|-------|
| VDE Gutachten mit Fertigungsüberwachung  |       |
|                                                                                                                             |       |
| mm²/AWG/kcmil                                                                                                               | 0.5-4 |
| Nominal current I <sub>N</sub>                                                                                              | 32 A  |
| Nominal voltage U <sub>N</sub>                                                                                              | 750 V |

## PCB terminal block - PT 2,5/ 7-7,5-V - 1988008

### Approvals

| cUL Recognized  |       |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|-------|
|                                                                                                  | B     | C     | D     |
| mm²/AWG/kcmil                                                                                    | 20-12 | 20-12 | 30-12 |
| Nominal current I <sub>N</sub>                                                                   | 20 A  | 20 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                   | 300 V | 150 V | 300 V |

| CCA                            |       |
|--------------------------------|-------|
|                                |       |
| mm²/AWG/kcmil                  | 0.5-4 |
| Nominal current I <sub>N</sub> | 32 A  |
| Nominal voltage U <sub>N</sub> | 750 V |

| IECEE CB Scheme  |       |
|----------------------------------------------------------------------------------------------------|-------|
|                                                                                                    |       |
| mm²/AWG/kcmil                                                                                      | 0.5-4 |
| Nominal current I <sub>N</sub>                                                                     | 32 A  |
| Nominal voltage U <sub>N</sub>                                                                     | 750 V |

|     |
|-----|
| EAC |
|-----|

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### Labeled terminal marker

Marker card - SK 7,5/3,8:FORTL.ZAHLEN - 0804455



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Adhesive, for terminal block width: 7.5 mm, Lettering field: 7.5 x 3.8 mm

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### Accessories

#### Screwdriver tools

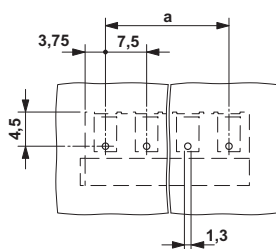
Screwdriver - SZS 0,6X3,5 - 1205053



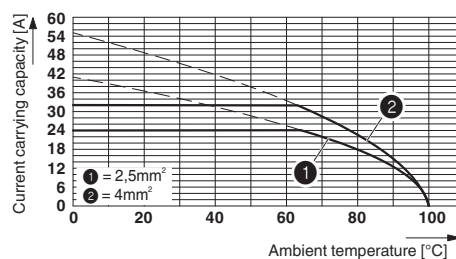
Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

### Drawings

Drilling diagram

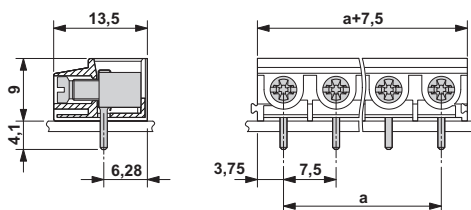


Diagram



Derating diagram for 5 pins;reduction factor=1

Dimensional drawing



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