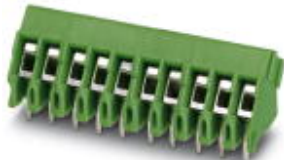


## PCB terminal block - PTA 1,5/16-3,5 - 1989094

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The figure shows a 10-position version of the product

PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 200 V, Nominal cross section: 1.5 mm<sup>2</sup>, pitch: 3.5 mm, number of positions: 16, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear front pinning, Solder pin [P]: 2.8 mm

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ High terminal block capacity thanks to rectangular terminal block space
- ✓ Allows connection of two conductors
- ✓ Angled connection enables multi-row arrangement on the PCB
- ✓ The latching on the side enables various numbers of positions to be combined



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| Minimum order quantity               | 50 pc                                                                                                   |
| GTIN                                 | <br>4 046356 037082 |
| GTIN                                 | 4046356037082                                                                                           |
| Weight per Piece (excluding packing) | 8.170 g                                                                                                 |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Greece                                                                                                  |

### Technical data

#### Item properties

|                           |                    |
|---------------------------|--------------------|
| Brief article description | PCB terminal block |
| Range of articles         | PTA 1,5            |

# PCB terminal block - PTA 1,5/16-3,5 - 1989094

## Technical data

### Item properties

|                       |                                      |
|-----------------------|--------------------------------------|
| Pitch                 | 3.5 mm                               |
| Number of positions   | 16                                   |
| Connection method     | Screw connection with wire protector |
| Screw thread          | M2                                   |
| Mounting type         | Wave soldering                       |
| Pin layout            | Linear front pinning                 |
| Number of levels      | 1                                    |
| Number of connections | 16                                   |
| Number of potentials  | 16                                   |

### Electrical parameters

|              |       |
|--------------|-------|
| Nom. voltage | 200 V |
|--------------|-------|

### Connection capacity

|                                                                      |                                               |
|----------------------------------------------------------------------|-----------------------------------------------|
| Connection method                                                    | Screw connection with wire protector          |
| pluggable                                                            | no                                            |
| Conductor cross section solid                                        | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG / kcmil                                  | 26 ... 16                                     |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, solid                          | 0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible                       | 0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>  |
| Stripping length                                                     | 5 mm                                          |
| Torque                                                               | 0.22 Nm ... 0.25 Nm                           |

### Material data - contact

|                                             |                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------|
| Note                                        | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                            | Cu alloy                                                                          |
| Metal surface terminal point (top layer)    | Tin (3 - 12 µm Sn)                                                                |
| Metal surface terminal point (middle layer) | Nickel (1.5 - 4 µm Ni)                                                            |
| Metal surface soldering area (top layer)    | Tin (3 - 12 µm Sn)                                                                |
| Metal surface soldering area (middle layer) | Nickel (1.5 - 4 µm Ni)                                                            |

### Material data - housing

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

# PCB terminal block - PTA 1,5/16-3,5 - 1989094

## Technical data

### Material data - housing

|                                                                   |        |
|-------------------------------------------------------------------|--------|
| 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 for the product

|                             |          |
|-----------------------------|----------|
| Length [ l ]                | 11.2 mm  |
| Width [ w ]                 | 56 mm    |
| Height [ h ]                | 12.7 mm  |
| Pitch                       | 3.5 mm   |
| Height (without solder pin) | 9.9 mm   |
| Solder pin [P]              | 2.8 mm   |
| Pin spacing                 | 3.5 mm   |
| Pin dimensions              | ø 0.9 mm |
| Dimension a                 | 52.5 mm  |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.2 mm |
| Pin spacing   | 3.5 mm |

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Ambient conditions

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

### Electrical tests

|                             |                     |
|-----------------------------|---------------------|
| Rated current               | 17.5 A              |
| Conductor cross section     | 1.5 mm <sup>2</sup> |
| Rated voltage (III/2)       | 200 V               |
| Rated surge voltage (III/2) | 2.5 kV              |

### Air clearances and creepage distances

|                                   |                                               |
|-----------------------------------|-----------------------------------------------|
| Clearances and creepage distances | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| Specification                     | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| Rated insulation voltage (III/3)  | 160 V                                         |
| Rated insulation voltage (III/2)  | 200 V                                         |
| Rated insulation voltage (II/2)   | 400 V                                         |

## PCB terminal block - PTA 1,5/16-3,5 - 1989094

### Technical data

#### Air clearances and creepage distances

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage (III/3)                     | 2.5 kV |
| Rated surge voltage (III/2)                     | 2.5 kV |
| Rated surge voltage (II/2)                      | 2.5 kV |
| Minimum clearance - inhomogeneous field (III/3) | 1.5 mm |
| Minimum clearance - inhomogeneous field (III/2) | 1.5 mm |
| Minimum clearance - inhomogeneous field (II/2)  | 1.5 mm |
| Minimum creepage distance value (III/3)         | 2 mm   |
| Minimum creepage distance value (III/2)         | 1.5 mm |
| Minimum creepage distance value (II/2)          | 2 mm   |

#### Current carrying capacity / derating curves

#### Standards and Regulations

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

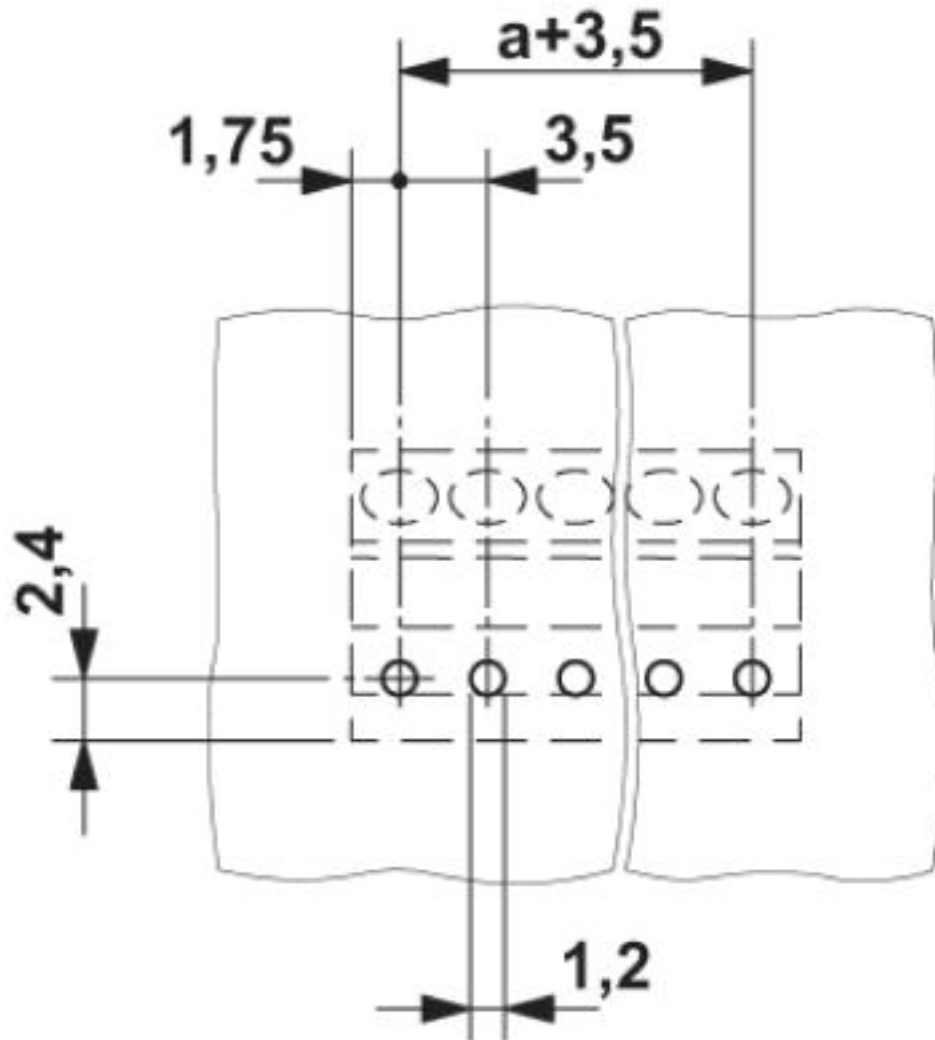
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
|            | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

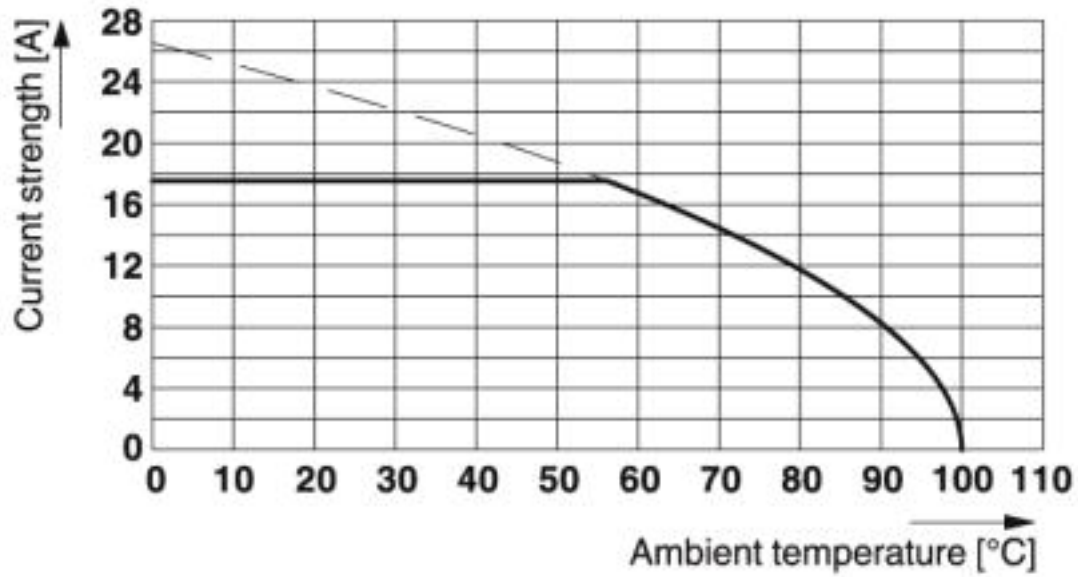
## PCB terminal block - PTA 1,5/16-3,5 - 1989094

Drilling diagram

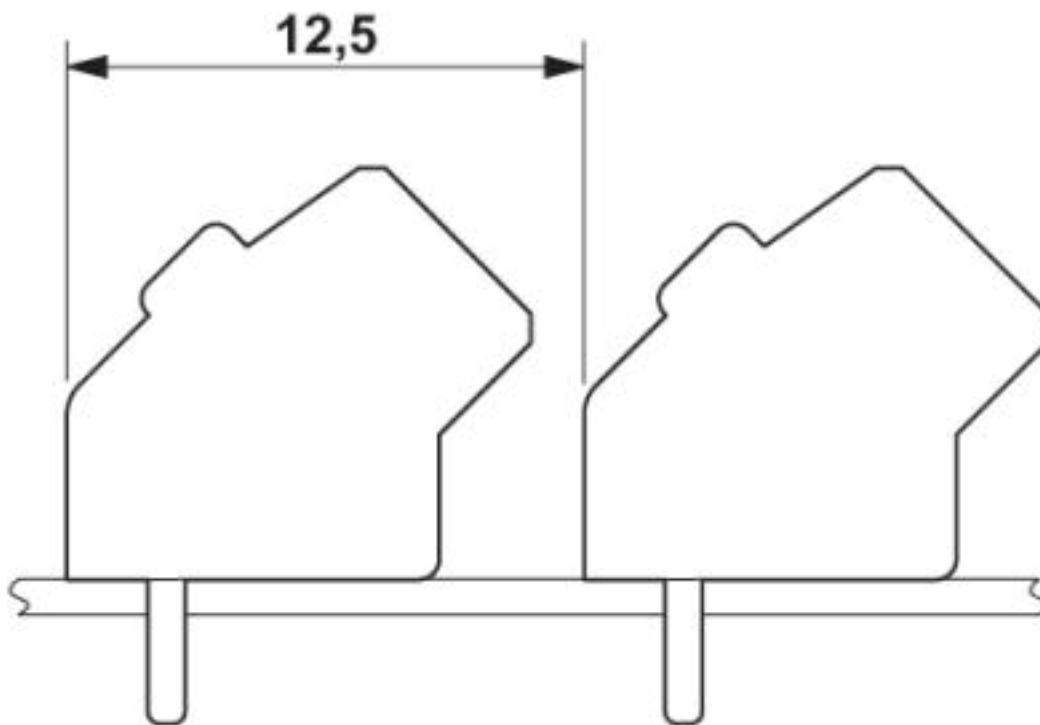


## PCB terminal block - PTA 1,5/16-3,5 - 1989094

Diagram

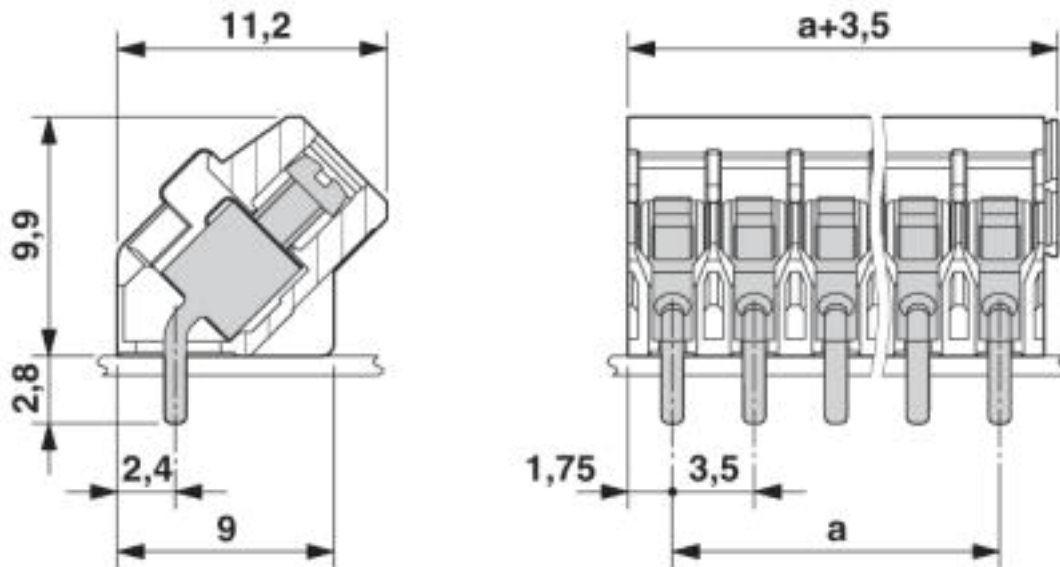


Dimensional drawing



## PCB terminal block - PTA 1,5/16-3,5 - 1989094

Dimensional drawing



### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27261100 |
| eCl@ss 6.0 | 27261100 |
| 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 |
| ETIM 6.0 | EC002643 |
| ETIM 7.0 | EC002643 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 34131203 |

## PCB terminal block - PTA 1,5/16-3,5 - 1989094

### Classifications

#### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121432 |
| UNSPSC 13.2  | 39121432 |
| UNSPSC 18.0  | 39121432 |
| UNSPSC 19.0  | 39121432 |
| UNSPSC 20.0  | 39121432 |
| UNSPSC 21.0  | 39121432 |

### Approvals

#### Approvals

#### Approvals

EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-------------------------------------------------------------------------------------|---------|

|                    |                                                                                     |                                                                                                                                                       |                 |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized   |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-20030211 |
|                    | B                                                                                   | D                                                                                                                                                     |                 |
| Nominal voltage UN | 300 V                                                                               | 300 V                                                                                                                                                 |                 |
| Nominal current IN | 10 A                                                                                | 10 A                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 26-16                                                                               | 26-16                                                                                                                                                 |                 |

### Accessories

#### Accessories

Labeled terminal marker

## PCB terminal block - PTA 1,5/16-3,5 - 1989094

### Accessories

Marker card - SK 3,5/2,8:FORTL.ZAHLEN - 0804073



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 99, mounting type: adhesive, for terminal block width: 3.5 mm, lettering field size: 3.5 x 2.8 mm

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### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip