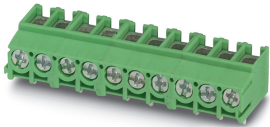


PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

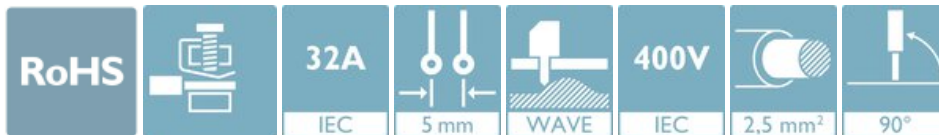
PCB terminal block, nominal current: 32 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 9, Number of rows: 1, Number of positions per row: 9, product range: PT 2,5/..-V, pitch: 5 mm, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.1 mm, type of packaging: packed in cardboard



The figure shows a 10-position version of the product

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
- ✓ The latching on the side enables various numbers of positions to be combined



Key Commercial Data

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 100 pc |
| GTIN |  4 017918 973261 |
| GTIN | 4017918973261 |
| Weight per Piece (excluding packing) | 10.850 g |
| Custom tariff number | 85369010 |
| Country of origin | Poland |

Technical data

Item properties

| | |
|---------------------------|--------------------|
| Brief article description | PCB terminal block |
| Range of articles | PT 2,5/..-V |

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Technical data

Item properties

| | |
|-----------------------|----------------|
| Pitch | 5 mm |
| Number of positions | 9 |
| Screw thread | M3 |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Number of rows | 1 |
| Number of connections | 9 |
| Number of potentials | 9 |

Electrical parameters

| | |
|-----------------------------|-------|
| Nominal current | 32 A |
| Nom. voltage | 400 V |
| Rated voltage (III/3) | 250 V |
| Rated voltage (III/2) | 400 V |
| Rated voltage (II/2) | 630 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated surge voltage (III/2) | 4 kV |
| Rated surge voltage (II/2) | 4 kV |

Connection capacity

| | |
|-------------------------------------------------------------------------------------------|----------------------------------------------|
| Connection method | Screw connection with wire protector |
| pluggable | no |
| Conductor cross section solid | 0.5 mm ² ... 4 mm ² |
| Conductor cross section flexible | 0.5 mm ² ... 4 mm ² |
| Conductor cross section AWG / kcmil | 20 ... 10 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, solid | 0.5 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible | 0.5 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm ² ... 0.75 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1.5 mm ² |
| Stripping length | 6.5 mm |
| Torque | 0.45 Nm ... 0.5 Nm |

Material data - contact

| | |
|------------------|-----------------------------------------------------------------------------------|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material | Cu alloy |

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Technical data

Material data - contact

| | |
|---------------------------------------------|------------------------|
| Surface characteristics | Tin-plated |
| 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

| | |
|-------------------------------------------------------------------|--------------|
| Housing color | 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 for the product

| | |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Caption | Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center |
| Length [l] | 13.5 mm |
| Width [w] | 45 mm |
| Height [h] | 13.1 mm |
| Pitch | 5 mm |
| Height (without solder pin) | 9 mm |
| Solder pin [P] | 4.1 mm |
| Pin spacing | 5 mm |
| Pin dimensions | ø 1 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.3 mm |
| Pin spacing | 5 mm |

Packaging information

| | |
|----------------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 100 |
| Denomination packing units | Pcs. |

General product information

| | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Type of note | Note on application |
| Note | For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or |

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Technical data

General product information

| | |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing). |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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) |

Electrical tests

| | |
|-----------------------------|-------------------|
| Rated current | 32 A |
| Conductor cross section | 4 mm ² |
| Rated voltage (III/2) | 400 V |
| Rated surge voltage (III/2) | 4 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 |
| Minimum clearance - inhomogeneous field (III/3) | 3 mm |
| Minimum clearance - inhomogeneous field (III/2) | 3 mm |
| Minimum clearance - inhomogeneous field (II/2) | 3 mm |
| Minimum creepage distance value (III/3) | 3.2 mm |
| Minimum creepage distance value (III/2) | 3 mm |
| Minimum creepage distance value (II/2) | 3.2 mm |

Standards and Regulations

| | |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|----------------------------------|--------|

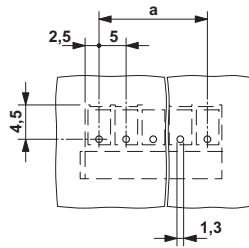
Environmental Product Compliance

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

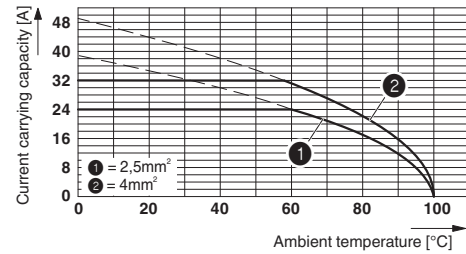
Drawings

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Drilling diagram

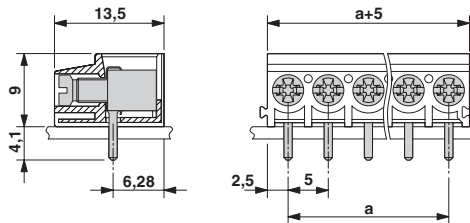


Diagram



Derating diagram for 5 pins; reduction factor=1

Dimensional drawing



The figure shows the 5-pos. version

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 11.0 | 27460101 |
| 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 9.0 | 27440401 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002643 |
| ETIM 6.0 | EC002643 |
| ETIM 7.0 | EC002643 |

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Classifications

UNSPSC

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

VDE Gutachten mit Fertigungsüberwachung / CCA / IEC60335 CB Scheme / EAC / cULus Recognized

Ex Approvals

Approval details

| | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40029839 |
| Nominal voltage UN | 250 V | | |
| Nominal current IN | 32 A | | |
| mm ² /AWG/kcmil | 0.5-4 | | |

| | |
|----------------------------|-----------|
| CCA | DE1 34001 |
| Nominal voltage UN | 250 V |
| Nominal current IN | 32 A |
| mm ² /AWG/kcmil | 0.5-4 |

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Approvals

| | | | |
|----------------------------|-------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme | | http://www.iecee.org/ | DE1-63844 |
| Nominal voltage UN | 250 V | | |
| Nominal current IN | 32 A | | |
| mm ² /AWG/kcmil | 0.5-4 | | |

| | | |
|-----|--|---------|
| EAC | | B.01687 |
|-----|--|---------|

| | | | |
|----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20030211 |
| | B | D | |
| Nominal voltage UN | 300 V | 300 V | |
| Nominal current IN | 20 A | 10 A | |
| mm ² /AWG/kcmil | 20-12 | 20-12 | |

Accessories

Accessories

Labeled terminal marker

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



Marker card, 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, lettering field size: 5 x 3.8 mm

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

PCB terminal block - PT 2,5/ 9-5,0-V - 1987795

Accessories

Phoenix Contact 2021 © - all rights reserved
<http://www.phoenixcontact.com>