

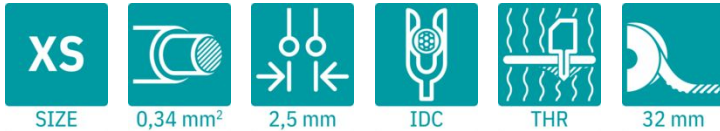
# PTQ 0,3/ 2-2,5-L THR R32 - PCB terminal block



1703375

<https://www.phoenixcontact.com/us/products/1703375>

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PCB terminal block, nominal current: 4 A, rated voltage (III/2): 160 V, nominal cross section: 0.34 mm<sup>2</sup>, number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: PTQ 0,3/..-THR, pitch: 2.5 mm, connection method: Displacement connection, mounting: THR soldering / wave soldering, conductor/PCB connection direction: 0 °, color: black, Pin layout: Zigzag pinning W, Solder pin [P]: 2 mm, number of solder pins per potential: 1, type of packaging: 32 mm wide tape

## Your advantages

- Connection without conductor pretreatment for huge time savings
- Finger-operated QUICKON insulation displacement connection enables repeated conductor connection
- Designed for integration into the SMT soldering process
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Anti-rotation pins reduce the mechanical strain on the soldering spots
- Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1703375       |
| Packing unit                         | 250 pc        |
| Minimum order quantity               | 250 pc        |
| Sales key                            | AA11          |
| Product key                          | AAKKA         |
| GTIN                                 | 4046356649087 |
| Weight per piece (including packing) | 2.704 g       |
| Weight per piece (excluding packing) | 2.566 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                           |                       |
|---------------------------|-----------------------|
| Product type              | PCB terminal block    |
| Product family            | PTQ 0,3/...-THR       |
| Product line              | COMBICON Terminals XS |
| Type                      | PC termination block  |
| Number of positions       | 2                     |
| Pitch                     | 2.5 mm                |
| Number of connections     | 2                     |
| Number of rows            | 1                     |
| Number of potentials      | 2                     |
| Pin layout                | Zigzag pinning W      |
| Solder pins per potential | 1                     |

### Electrical properties

#### Properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 4 A    |
| Nominal voltage $U_N$       | 160 V  |
| Rated voltage (III/3)       | 160 V  |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2)       | 160 V  |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2)        | 200 V  |
| Rated surge voltage (II/2)  | 2.5 kV |

### Connection data

#### Connection technology

|                       |                      |
|-----------------------|----------------------|
| Type                  | PC termination block |
| Nominal cross section | 0.34 mm <sup>2</sup> |

#### Conductor connection

|                                  |   |
|----------------------------------|---|
| Connection method                | Displacement connection                       |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> |
| Conductor cross-section AWG      | 26 ... 22                                     |

### Mounting

|               |                                |
|---------------|--------------------------------|
| Mounting type | THR soldering / wave soldering |
| Pin layout    | Zigzag pinning W               |

#### Processing notes

|         |                       |
|---------|-----------------------|
| Process | Reflow/wave soldering |
|---------|-----------------------|

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|   |        |
|---|--------|
| Moisture Sensitive Level                  | MSL 1  |
| Classification temperature T <sub>c</sub> | 260 °C |
| Solder cycles in the reflow               | 3      |

## 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                     | hot-dip tin-plated   |
| Metal surface terminal point (top layer)    | Tin (3 µm - 5 µm Sn)   |
| Metal surface terminal point (middle layer) | Nickel (1.3 µm - 3 µm Ni)  |
| Metal surface soldering area (top layer)    | Tin (3 µm - 5 µm Sn)   |
| Metal surface soldering area (middle layer) | Nickel (1.3 µm - 3 µm Ni)  |

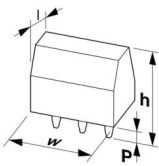
### Material data - housing

|  |              |
|--|--------------|
| Color (Housing)                        | black (9005) |
| Insulating material                    | LCP          |
| Insulating material group              | IIIa         |
| CTI according to IEC 60112             | 175          |
| Flammability rating according to UL 94 | V0           |

## Notes

|                     |   |
|---------------------|---|
| Note on application | The item is qualified for CAT5 Ethernet applications. For this reason, it is suited for use in IoT devices. |
|---------------------|---|

## Dimensions

|                       |  |
|-----------------------|--|
| Dimensional drawing   |  |
| Pitch                 | 2.5 mm   |
| Width [w]             | 7 mm   |
| Height [h]            | 10 mm  |
| Length [l]            | 17.55 mm   |
| Installed height      | 8 mm   |
| Solder pin length [P] | 2 mm   |
| Pin dimensions        | 0.9 x 0.4 mm   |

### PCB design

|               |        |
|---------------|--------|
| Pin spacing   | 2.5 mm |
| Hole diameter | 1.1 mm |

## Mechanical tests

# PTQ 0,3/ 2-2,5-L THR R32 - PCB terminal block



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## Connection test

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60998-2-3:2002-12 |
| Result        | Test passed           |

## Pull-out test

|   |   |
|---|---|
| Specification   | IEC 60999-1:1999-11                     |
| Conductor cross-section/conductor type/tractive force setpoint/actual value | 0.2 mm <sup>2</sup> / solid / > 10 N    |
|   | 0.2 mm <sup>2</sup> / flexible / > 10 N |

## Electrical tests

### Temperature-rise test

|                                   |                                |
|-----------------------------------|--------------------------------|
| Specification                     | IEC 60998-1:2002-12            |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

### Short-time withstand current

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60998-2-3:2002-12 |
|---------------|-----------------------|

### Insulation resistance

|  |                       |
|--|-----------------------|
| Specification                                | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ                |

### Temperature cycles

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60998-2-3:2002-12 |
| Result        | Test passed           |

### Air clearances and creepage distances |

|  |                     |
|--|---------------------|
| Specification  | IEC 60664-1:2007-04 |
| Insulating material group                              | IIIa                |
| Comparative tracking index (IEC 60112)                 | CTI 175             |
| Rated insulation voltage (III/3)                       | 160 V               |
| Rated surge voltage (III/3)                            | 2.5 kV              |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm              |
| minimum creepage distance (III/3)                      | 2.5 mm              |
| Rated insulation voltage (III/2)                       | 160 V               |
| Rated surge voltage (III/2)                            | 2.5 kV              |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm              |
| minimum creepage distance (III/2)                      | 1.6 mm              |
| Rated insulation voltage (II/2)                        | 200 V               |
| Rated surge voltage (II/2)                             | 2.5 kV              |
| minimum clearance value - non-homogenous field (II/2)  | 1.5 mm              |
| minimum creepage distance (II/2)                       | 2 mm                |

## Environmental and real-life conditions

### Shocks

|               |                        |
|---------------|------------------------|
| Specification | IEC 60068-2-27:2008-02 |
|---------------|------------------------|

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|                 |                   |
|-----------------|-------------------|
| Pulse shape     | Half-sine         |
| Acceleration    | 15g               |
| Shock duration  | 11 ms             |
| Test directions | X-, Y- and Z-axis |

## Railway application: Shocks

|                 |                   |
|-----------------|-------------------|
| Acceleration    | 15g               |
| Shock duration  | 11 ms             |
| Test directions | X-, Y- and Z-axis |

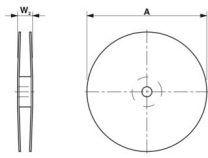
## Glow-wire test

|                  |                     |
|------------------|---------------------|
| Specification    | IEC 60998-1:2002-12 |
| Time of exposure | 5 s                 |

## 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) |

## Packaging specifications

|                             |  |
|-----------------------------|--|
| Dimensional drawing         |  |
| Type of packaging           | 32 mm wide tape  |
| [W] tape width              | 32 mm  |
| [W2] coil overall dimension | ≤ 38.4 mm  |
| [A] coil diameter           | ≤ 330 mm   |
| Outer packaging type        | Transparent-Bag  |

# PTQ 0,3/ 2-2,5-L THR R32 - PCB terminal block

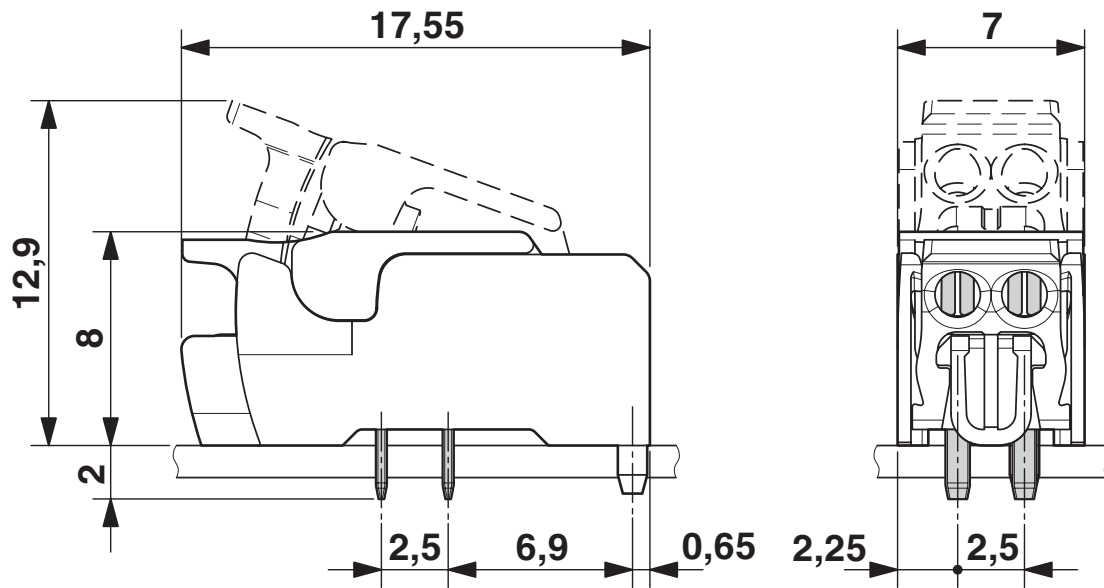


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## Drawings

Dimensional drawing



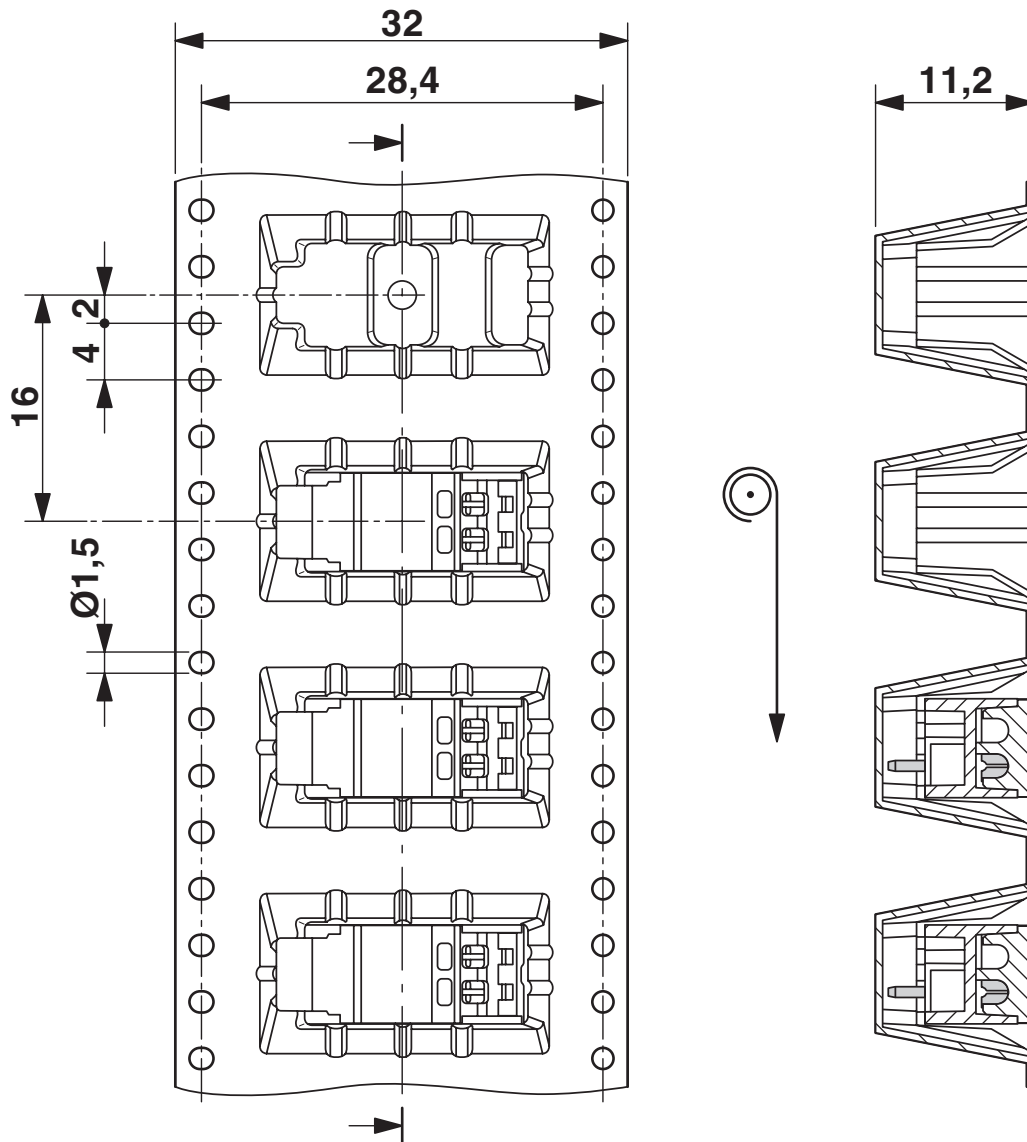
# PTQ 0,3/ 2-2,5-L THR R32 - PCB terminal block

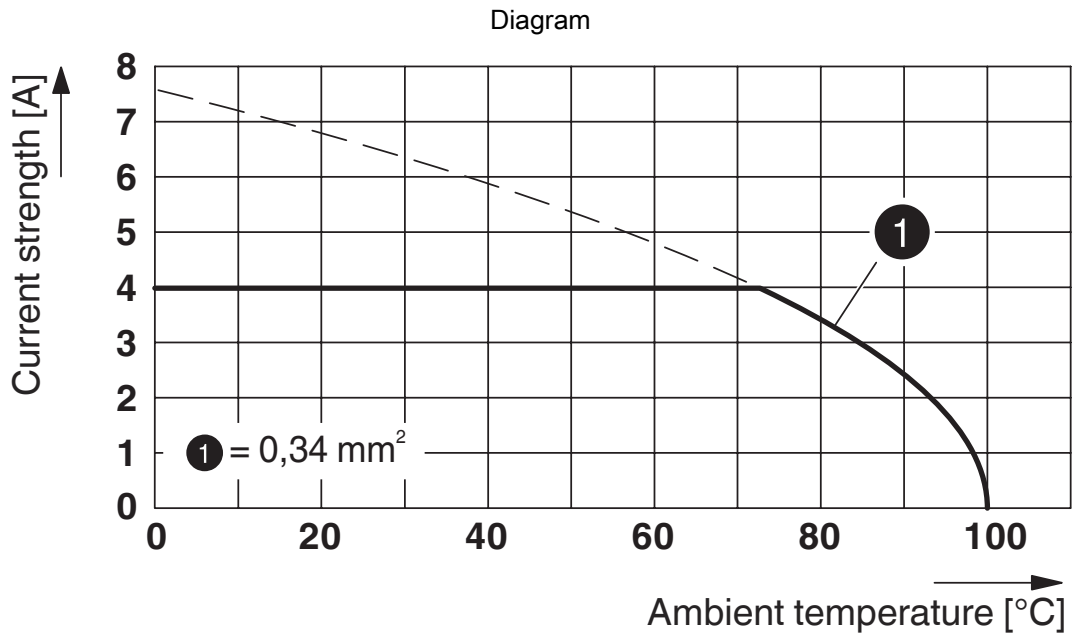
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Dimensional drawing





Type: PTQ 0,3/..-2,5(-L) THR R32

# PTQ 0,3/ 2-2,5-L THR R32 - PCB terminal block





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1703375>

|  <b>cULus Recognized</b><br>Approval ID: E60425-20110108 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B   | 150 V                 | 2 A                   | 24                | -                           |

|  <b>VDE report with production monitoring</b><br>Approval ID: 40034315 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   | 130 V                 | 4 A                   | -                 | - 0.2                       |

# PTQ 0,3/ 2-2,5-L THR R32 - PCB terminal block



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460101 |
| ECLASS-15.0 | 27460101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002643 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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