

PTSPL-6/1-2X2 2,9 R32 - PCB terminal block



1704837

<https://www.phoenixcontact.com/us/products/1704837>

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PCB terminal block, nominal current: 41 A, nominal cross section: 6 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: PTSPL 6/.., pitch: 0 mm, connection method: Push-in spring connection, mounting: THR soldering / wave soldering, conductor/PCB connection direction: 0 °, color: copper color, Pin layout: Linear pinning, Solder pin [P]: 2.9 mm, number of solder pins per potential: 4, type of packaging: 32 mm wide tape

Your advantages

- Able to perform without insulating elements: ideal for easy integration into the SMT soldering process
- Tool-free spring principle enables time-saving connection of conductors with ferrules and tinned conductors
- Defined contact force ensures that contact remains stable over the long term

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1704837 |
| Packing unit | 250 pc |
| Minimum order quantity | 250 pc |
| Sales key | AA14 |
| Product key | AANCBA |
| GTIN | 4046356739993 |
| Weight per piece (including packing) | 3.22 g |
| Weight per piece (excluding packing) | 1.5 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

Technical data

Product properties

| | |
|---------------------------|--|
| Product type | PCB terminal block |
| Product family | PTSPL 6/.. |
| Product line | COMBICON Terminals L |
| Type | Circular conductor connection, single-pos. |
| Number of positions | 1 |
| Pitch | 0 mm |
| Number of connections | 1 |
| Number of rows | 1 |
| Number of potentials | 1 |
| Pin layout | Linear pinning |
| Solder pins per potential | 4 |

Electrical properties

Properties

| | |
|-----------------------|------|
| Nominal current I_N | 41 A |
|-----------------------|------|

Connection data

Connection technology

| | |
|-----------------------|--|
| Type | Circular conductor connection, single-pos. |
| Nominal cross section | 6 mm ² |

Conductor connection

| | |
|---|---|
| Connection method | Push-in spring connection |
| Conductor cross-section flexible | 2.5 mm ² ... 6 mm ² (Conductors with tin-plated litz wires are to be used, for example type PV1-F.) |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 2.5 mm ² ... 6 mm ² |
| Stripping length | 12 mm ... 15 mm |

Mounting

| | |
|---------------|--------------------------------|
| Mounting type | THR soldering / wave soldering |
| Pin layout | Linear pinning |

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 (4 µm - 8 µm Sn) |

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| | |
|--|----------------------|
| Metal surface soldering area (top layer) | Tin (4 µm - 8 µm Sn) |
|--|----------------------|

Material data - housing

| | |
|-----------------|-----------------|
| Color (Housing) | copper color () |
|-----------------|-----------------|

Dimensions

| | |
|-----------------------|--|
| Dimensional drawing |  |
| Width [w] | 8.7 mm |
| Height [h] | 13.7 mm |
| Length [l] | 14.95 mm |
| Installed height | 10.8 mm |
| Solder pin length [P] | 2.9 mm |
| Pin dimensions | 0.6 x 1 mm |

PCB design

| | |
|---------------|--------|
| Hole diameter | 1.3 mm |
|---------------|--------|

Mechanical tests

Conductor connection

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |

Pull-out test

| | |
|---|---|
| Specification | IEC 60999-1:1999-11 |
| Conductor cross-section/conductor type/tractive force setpoint/actual value | 2.5 mm ² / stranded PV1-F / > 50 N |
| | 6 mm ² / stranded PV1-F / > 80 N |

Electrical tests

Temperature-rise test

| | |
|-----------------------------------|--------------------------------|
| Specification | 60947-7-4/FDIS © IEC 2012 |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

Temperature cycles

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |

Environmental and real-life conditions

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Vibration test

| | |
|------------------------|-----------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz ... 60.1 Hz) |
| Acceleration | 5g (60.1 Hz ... 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Shocks

| | |
|-----------------|-----------------------------------|
| Specification | IEC 60068-2-27:2008-02 |
| Pulse shape | Semi-sinusoidal |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

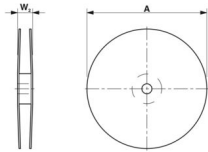
Railway application: Shocks

| | |
|-----------------|-----------------------------------|
| Acceleration | 30g |
| Shock duration | 18 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Ambient conditions

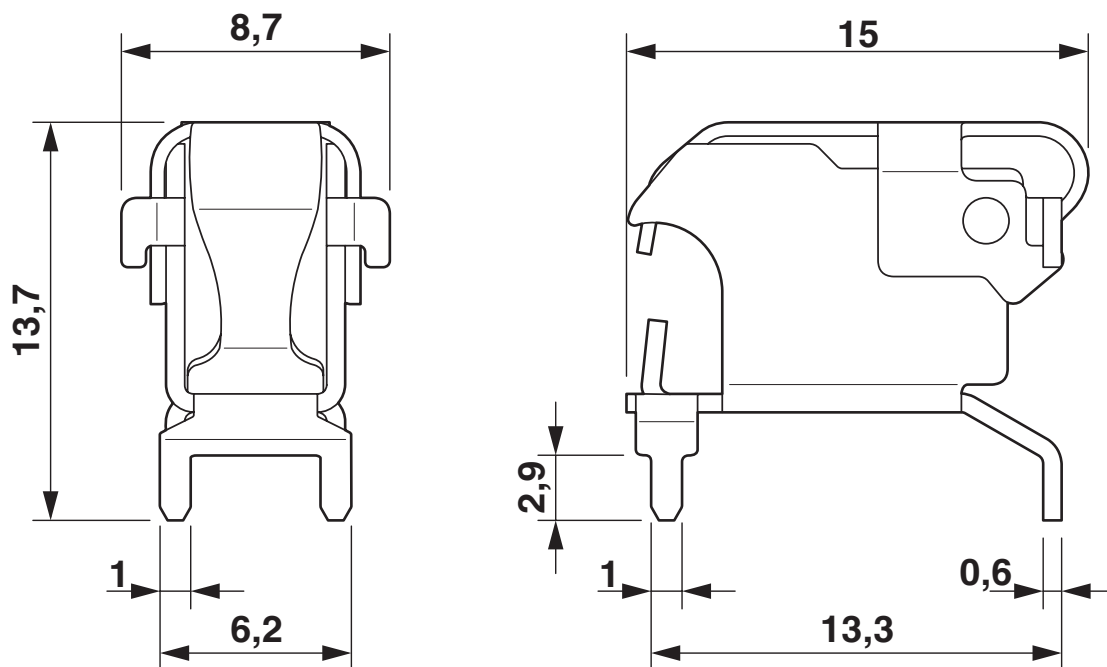
| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |

Packaging specifications

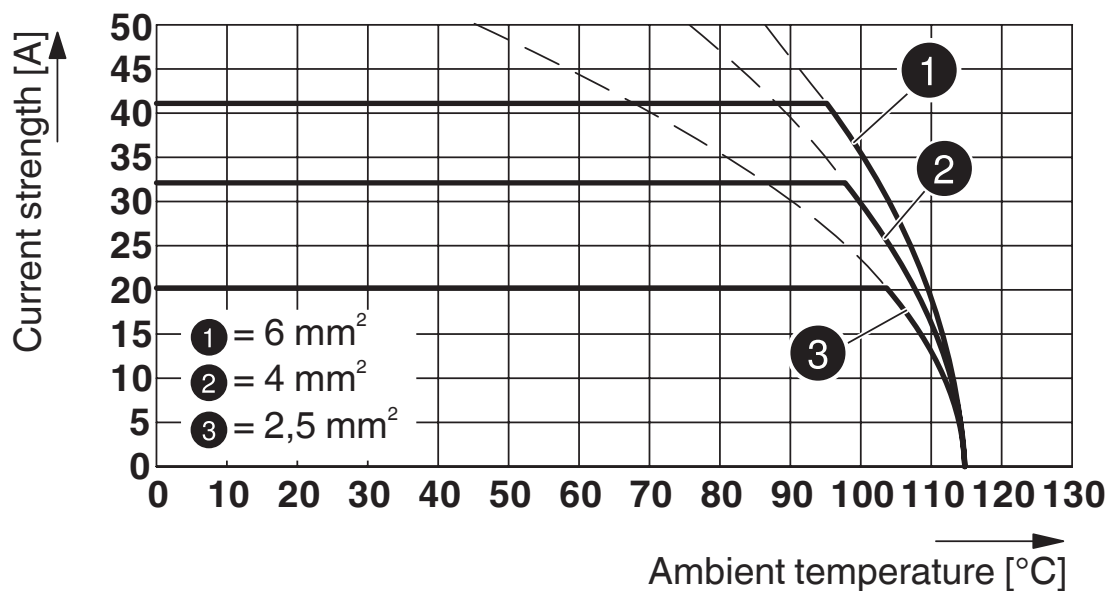
| | |
|-----------------------------|--|
| Dimensional drawing |  |
| Type of packaging | 32 mm wide tape |
| [W] tape width | 32 mm |
| [W2] coil overall dimension | ≤ 38.4 mm |
| [A] coil diameter | ≤ 330 mm |
| Outer packaging type | Transparent-Bag |

Drawings

Dimensional drawing



Diagram



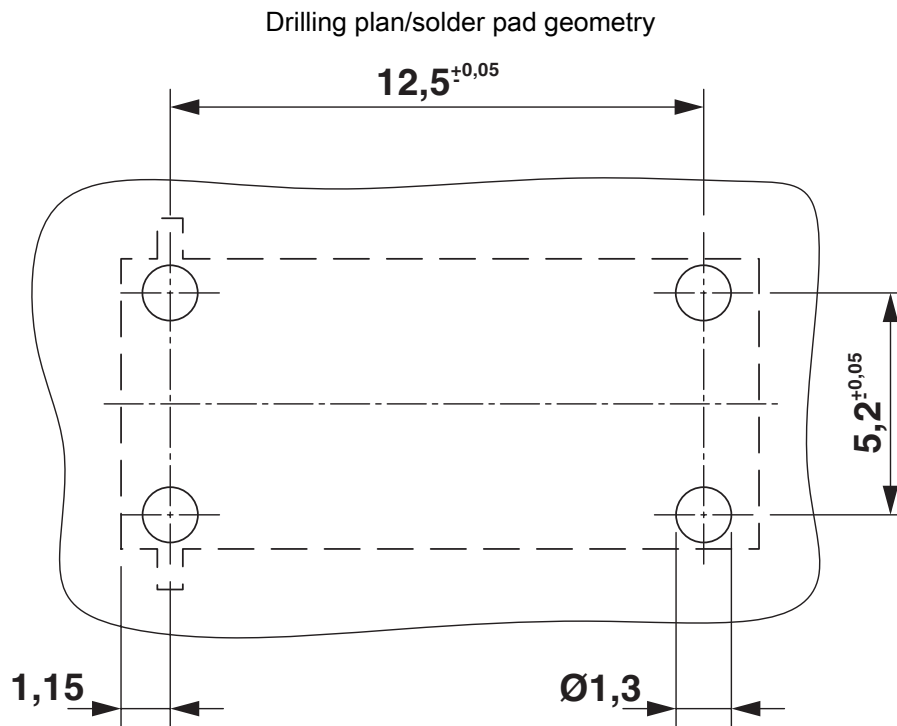
Type: PTSPL(O)-6/1-2X2 ... R32

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1704837>

|  cULus Recognized Approval ID: E365246-20141111 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | - | 30 A | 14 - 10 | - |

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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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