

PW 4-POT-SCM - Panel feed-through terminal block



3056938

<https://www.phoenixcontact.com/us/products/3056938>

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Panel feed-through terminal block, connection method: Push-in spring connection, Spade connection, number of positions: 1, load current: 18 A, cross section: 0.2 mm² - 4 mm², connection direction of the conductor to plug-in direction: 45 °, width: 8.1 mm, color: gray

Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Intuitive operation due to color-coded actuating push button
- Tool-free snap-in principle enables easy mounting on the device panel
- Automatic panel thickness compensation enables universal use
- Reliable seal even with low-viscosity molding compounds

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3056938 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AA28 |
| Product key | AA1AEA |
| GTIN | 4046356485500 |
| Weight per piece (including packing) | 8.83 g |
| Weight per piece (excluding packing) | 8.66 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|-----------------------|-----------------------------------|
| Product type | Panel feed-through terminal block |
| Product family | PW 4-POT-SCM |
| Number of positions | 1 |
| Pitch | 8.1 mm |
| Number of connections | 2 |
| Number of rows | 1 |
| Number of potentials | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

Properties

| | |
|-----------------------------|-------|
| Nominal current I_N | 18 A |
| Nominal voltage U_N | 800 V |
| Rated voltage (III/3) | 800 V |
| Rated surge voltage (III/3) | 8 kV |

Connection data

Connection technology

| | |
|-----------------------|-------------------|
| Connector system | PW 4 |
| Nominal cross section | 4 mm ² |

Conductor connection exterior

| | |
|---|--|
| Connection method | Push-in spring connection |
| Connection direction of the conductor to plug-in direction | 45 ° |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 6 mm ² |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm ² ... 6 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 4 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 1 mm ² |
| Internal cylindrical gage | A4 |
| Stripping length | 10 mm |

Conductor connection interior

| | |
|--|------------------|
| Connection method | Spade connection |
| Connection direction of the conductor to plug-in direction | 0 ° |

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Mounting

| | |
|----------------------------------|---|
| Panel thickness | 1 mm...4 mm |
| Attachment to feed-through panel | |
| Tightening torque | 0.5 Nm ... 0.6 Nm (Mounting screw torque) |

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 | tin-plated |

Material data - housing

| | |
|---|-------------|
| Color (Housing) | gray (7042) |
| 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 |

Material data – actuating element

| | |
|--|-----|
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |

Notes

Safety note

| | |
|-------------|---|
| Safety note | <ul style="list-style-type: none">• Only electrically qualified personnel may install and operate the product. To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.• Observe the technical data provided here and refer to the documents listed under "Downloads". The download area contains important information, such as installation notes, technical drawings, and 3D data.• To maintain the nominal voltage, cast the terminals on the inside. |
|-------------|---|

Dimensions

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| | |
|---------------------|--|
| Dimensional drawing |  |
| Pitch | 8.1 mm |
| Width [w] | 8.1 mm |

External dimensions

| | |
|-------------|---------|
| Height [h1] | 30 mm |
| Length [l1] | 30.5 mm |

Internal dimensions

| | |
|-------------|---------|
| Height [h2] | 27 mm |
| Length [l2] | 15.5 mm |

Mechanical tests

Test for conductor damage and slackening

| | |
|---------------|-----------------------|
| Specification | IEC 60947-7-1:2009-04 |
| Result | Test passed |

Pull-out test

| | |
|---|---|
| Specification | IEC 60947-7-1:2009-04 |
| Conductor cross-section/conductor type/tractive force setpoint/actual value | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |
| | 4 mm ² / solid / > 60 N |
| | 4 mm ² / flexible / > 60 N |

Electrical tests

Temperature-rise test

| | |
|-----------------------------------|--------------------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

Short-time withstand current

| | |
|---------------|-----------------------|
| Specification | IEC 60947-7-1:2009-04 |
|---------------|-----------------------|

Air clearances and creepage distances | 1. Insulation coordination

| | |
|--|------------------------------|
| Application | Metal wall 1.0 mm ... 4.0 mm |
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 800 V |
| Rated surge voltage (III/3) | 8 kV |
| minimum clearance value - non-homogenous field (III/3) | 8 mm |
| minimum creepage distance (III/3) | 10 mm |

Environmental and real-life conditions

Vibration test

| | |
|------------------------|-----------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 Hz ... 150 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 |

Glow-wire test

| | |
|------------------|------------------------|
| Specification | IEC 60695-2-11:2000-10 |
| Temperature | 960 °C |
| Time of exposure | 30 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) |

Ambient conditions

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

Packaging specifications

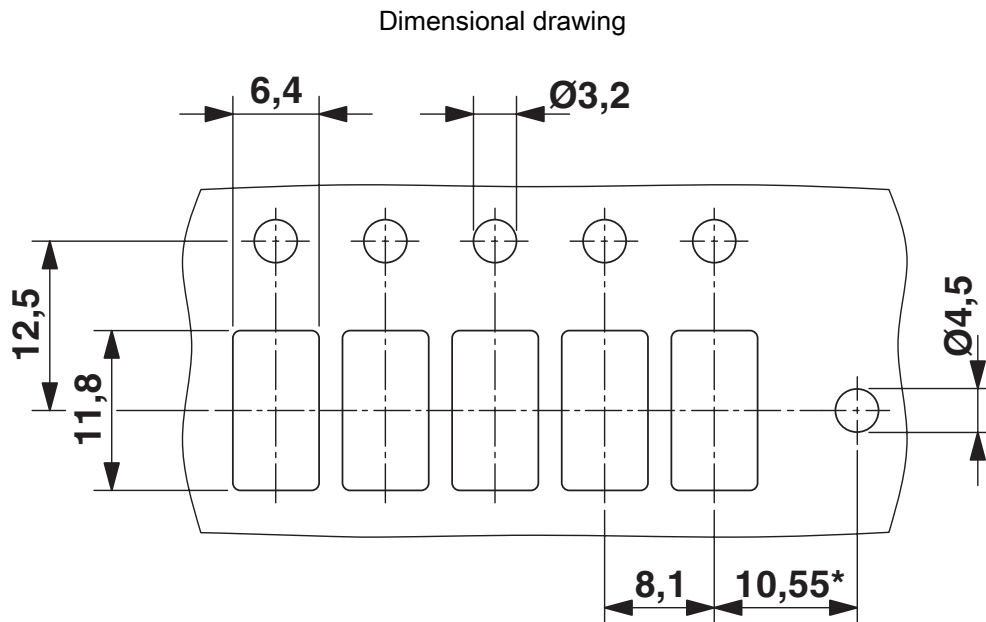
| | |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

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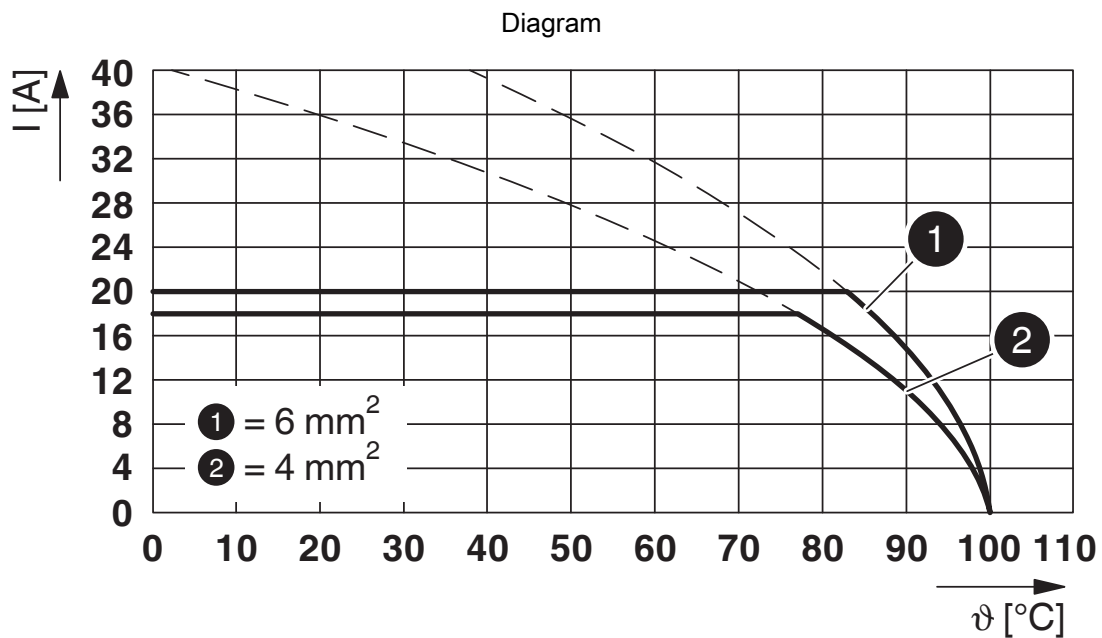
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Drawings



*Only when using the PW 4-F flange plate



Type: PW(O) 4-POT-SCM(/S)

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3056938>

|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 300 V | 30 A | 24 - 10 | - |
| C | 300 V | 30 A | 24 - 10 | - |
| D | 600 V | 5 A | 24 - 10 | - |

|  cULus Recognized Approval ID: E60425-20100423 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27141134 |
| ECLASS-15.0 | 27141134 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001283 |
|-----------|----------|

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.214 kg CO2e |
|---------|---------------|

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