

# PWO 16-UW/S - Panel feed-through terminal block



1844390

<https://www.phoenixcontact.com/us/products/1844390>

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Panel feed-through terminal block, connection method: Push-in spring connection, Screw connection with tension sleeve, number of positions: 1, load current: 76 A, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, connection direction of the conductor to plug-in direction: 45 °, width: 12 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
- Tool-free snap-in principle enables easy mounting on the device panel
- Automatic panel thickness compensation enables universal use

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1844390       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | AA28          |
| Product key                          | AA1DEA        |
| GTIN                                 | 4046356951326 |
| Weight per piece (including packing) | 37.21 g       |
| Weight per piece (excluding packing) | 33.4 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        | PWO 16-UW                         |
| Number of positions   | 1                                 |
| Pitch                 | 12.1 mm                           |
| Number of connections | 2                                 |
| Number of rows        | 1                                 |
| Number of potentials  | 1                                 |

### Insulation characteristics

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

### Electrical properties

#### Properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 76 A   |
| Nominal voltage $U_N$       | 800 V  |
| Rated voltage (III/3)       | 800 V  |
| Rated surge voltage (III/3) | 8 kV   |
| Rated voltage (III/2)       | 1000 V |
| Rated surge voltage (III/2) | 8 kV   |
| Rated voltage (II/2)        | 1000 V |
| Rated surge voltage (II/2)  | 6 kV   |

### Connection data

#### Connection technology

|                       |                    |
|-----------------------|--------------------|
| Connector system      | UW 16 / PW 16      |
| Nominal cross section | 16 mm <sup>2</sup> |

#### Conductor connection exterior

|   |  |
|---|--|
| Connection method   | Push-in spring connection                  |
| Connection direction of the conductor to plug-in direction                                | 45 °                                       |
| Conductor cross-section rigid   | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section flexible  | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve                   | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve                      | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Stripping length  | 18 mm                                      |

#### Conductor connection interior

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|   |  |
|---|--|
| Connection method   | Screw connection with tension sleeve     |
| Connection direction of the conductor to plug-in direction                                | 0 °                                      |
| Conductor cross-section rigid   | 6 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Single-conductor/terminal point multi-stranded  | 6 mm <sup>2</sup> ... 25 mm <sup>2</sup> |
| Conductor cross-section flexible  | 6 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section AWG   | 10 ... 4                                 |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve                   | 6 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve                      | 6 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 4 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Internal cylindrical gage   | B7                                       |
| Stripping length  | 16 mm                                    |
| Tightening torque   | 2 Nm ... 2.3 Nm                          |

## Mounting

|                 |             |
|-----------------|-------------|
| Panel thickness | 1 mm...6 mm |
|-----------------|-------------|

## 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      |

## Notes

### Safety note

|             |  |
|-------------|--|
| Safety note | <ul style="list-style-type: none"><li>• Only electrically qualified personnel may install and operate the product.<br/>To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.</li><li>• 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.</li></ul> |
|-------------|--|

# PWO 16-UW/S - Panel feed-through terminal block

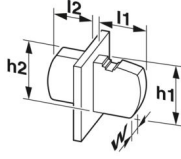


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• The cable entry funnel is not safe to touch. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch protection.

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Pitch               | 12.1 mm  |
|                     | 12.1 mm  |
| Width [w]           | 12 mm  |

### External dimensions

|             |         |
|-------------|---------|
| Width [w]   | 12 mm   |
| Height [h1] | 44.4 mm |
| Length [l1] | 39.7 mm |

### Internal dimensions

|             |         |
|-------------|---------|
| Width [w]   | 12 mm   |
| Height [h2] | 38.3 mm |
| Length [l2] | 29.5 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 | 1.5 mm <sup>2</sup> / solid / > 40 N    |
|   | 1.5 mm <sup>2</sup> / flexible / > 40 N |
|   | 16 mm <sup>2</sup> / solid / > 100 N    |
|   | 16 mm <sup>2</sup> / flexible / > 100 N |

## Electrical tests

### Temperature-rise test

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

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|  |                                  |
|--|----------------------------------|
| Specification  | IEC 60947-1:2007-06 + A1:2010-12 |
| 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                            |
| Rated insulation voltage (III/2)                       | 1000 V                           |
| Rated surge voltage (III/2)                            | 8 kV                             |
| minimum clearance value - non-homogenous field (III/2) | 8 mm                             |
| minimum creepage distance (III/2)                      | 5 mm                             |
| Rated insulation voltage (II/2)                        | 1000 V                           |
| Rated surge voltage (II/2)                             | 6 kV                             |
| minimum clearance value - non-homogenous field (II/2)  | 5.5 mm                           |
| minimum creepage distance (II/2)                       | 5 mm                             |

## Environmental and real-life conditions

### 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           |

### 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) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Relative humidity (storage/transport)   | 30 % ... 70 %   |
| Ambient temperature (assembly)          | -5 °C ... 100 °C  |
| Ambient temperature (actuation)         | -5 °C ... 100 °C  |

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## Packaging specifications

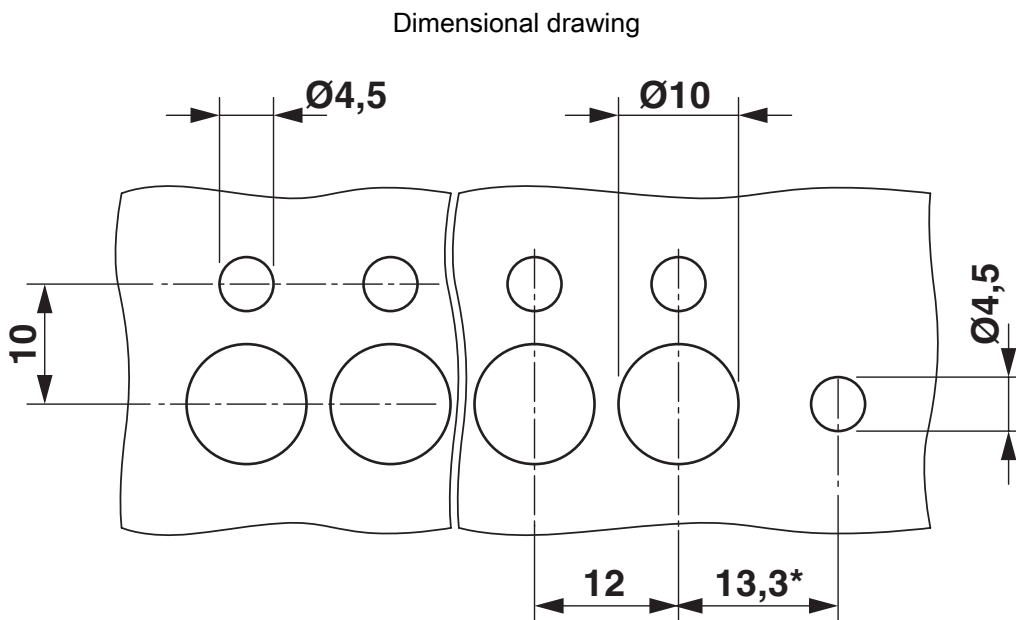
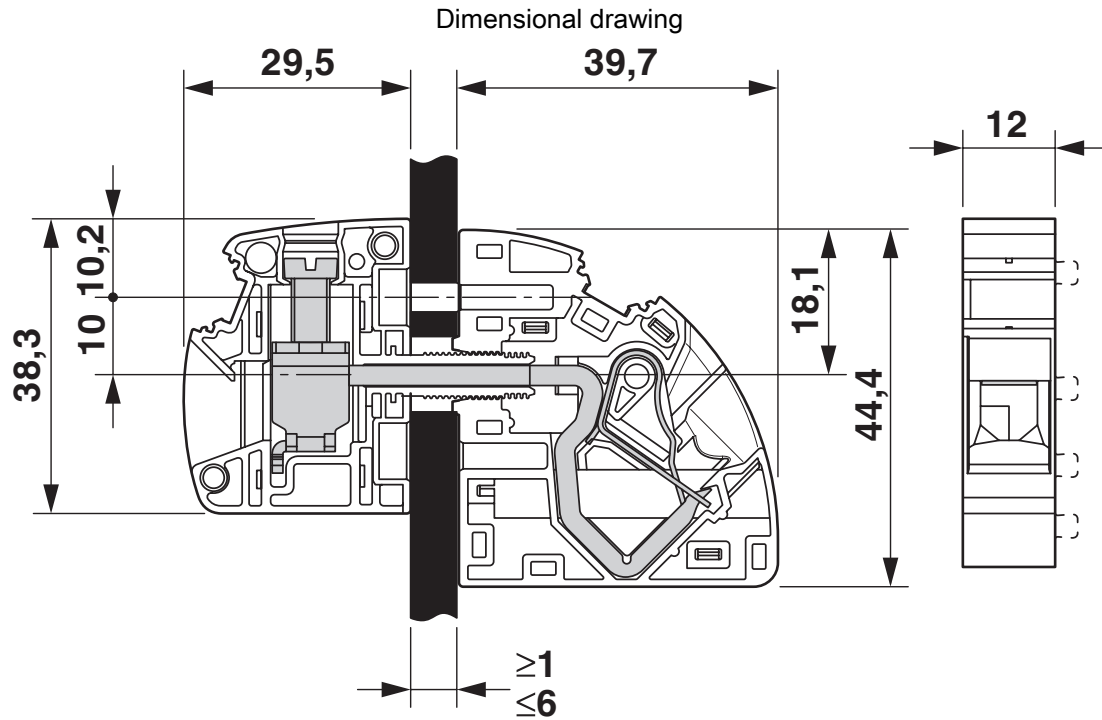
|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

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## Drawings



\*Only when using the PWO 16-F flange plate

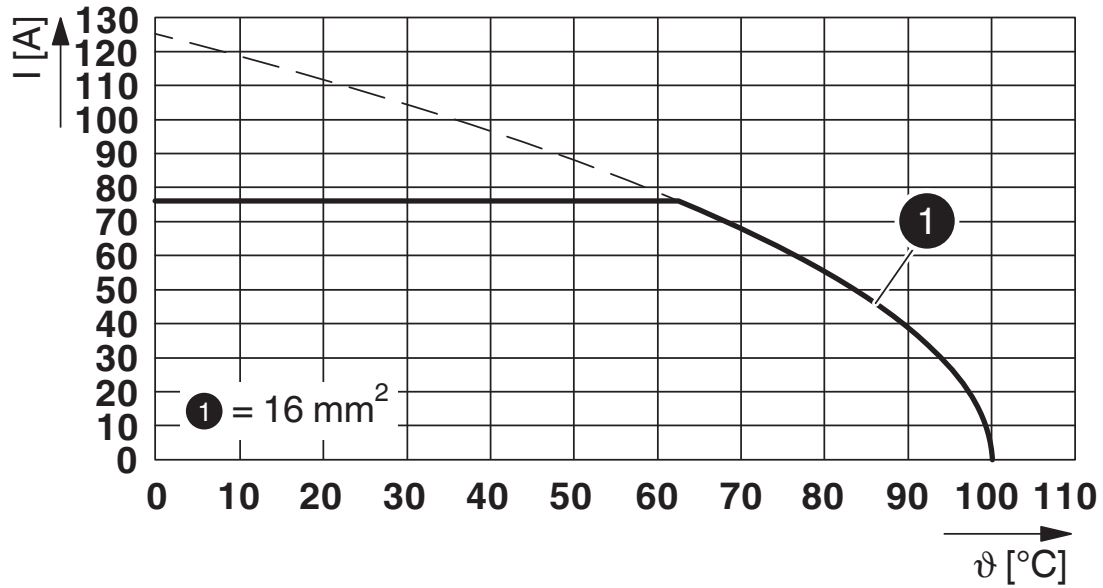
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Diagram



Type: PWO 16-UW(/S)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1844390>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  | 600 V                 | 66 A                  | 14 - 4            | -                           |
| C  | 600 V                 | 66 A                  | 14 - 4            | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-20100423 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B   | 600 V                 | 66 A                  | 14 - 4            | -                           |
| C   | 600 V                 | 66 A                  | 14 - 4            | -                           |

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

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