

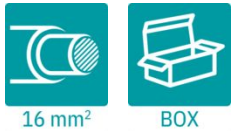
PLW 16-6/ 3-10 - Panel feed-through terminal block



1821067

<https://www.phoenixcontact.com/us/products/1821067>

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Panel feed-through terminal block, connection method: Push-lock connection, Push-in spring connection, number of positions: 3, load current: 41 A, cross section: 2.5 mm² - 16 mm², connection direction of the conductor to plug-in direction: 0 °, width: 54.4 mm, color: gray

Your advantages

- Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed
- Quick, tool-free mounting on the housing wall using a fixing wedge

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1821067 |
| Packing unit | 15 pc |
| Minimum order quantity | 15 pc |
| Sales key | AA28 |
| Product key | AA1DGA |
| GTIN | 4046356788199 |
| Weight per piece (including packing) | 87.2 g |
| Weight per piece (excluding packing) | 78.2 g |
| Customs tariff number | 85369010 |
| Country of origin | SK |

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Technical data

Product properties

| | |
|---------------------------|-----------------------------------|
| Product type | Panel feed-through terminal block |
| Product family | PLW 16 |
| Number of positions | 3 |
| Pitch | 10 mm |
| Number of connections | 6 |
| Number of rows | 1 |
| Number of potentials | 3 |
| Solder pins per potential | 1 |

Insulation characteristics

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

Electrical properties

Properties

| | |
|-----------------------------|--------|
| Nominal current I_N | 41 A |
| Nominal voltage U_N | 1000 V |
| Rated voltage (III/3) | 1000 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 | PLW 16-6 |
| Nominal cross section | 16 mm ² |

Conductor connection exterior

| | |
|-------------------------------------------------------------------------|--------------------------------------------|
| Connection method | Push-lock connection |
| Connection direction of the conductor to plug-in direction | 0 ° |
| Conductor cross-section rigid | 2.5 mm ² ... 16 mm ² |
| Conductor cross-section flexible | 2.5 mm ² ... 25 mm ² |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 2.5 mm ² ... 16 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 2.5 mm ² ... 16 mm ² |
| Stripping length | 18 mm |

Conductor connection interior

| | |
|-------------------|---------------------------|
| Connection method | Push-in spring connection |
|-------------------|---------------------------|

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| | |
|-------------------------------------------------------------------------|-------------------------------------------|
| Connection direction of the conductor to plug-in direction | 35 ° |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 1.5 mm ² ... 6 mm ² |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve | 1.5 mm ² ... 6 mm ² |
| Stripping length | 15 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 |

Material data – actuating element

| | |
|----------------------------------------|--------|
| Insulating material | PBT GF |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 275 |
| Flammability rating according to UL 94 | V0 |

Notes

Safety note

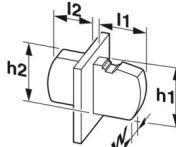
| | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety note | <ul style="list-style-type: none">• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.• 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.• There is no electrical contact to the housing. Make sure that protective grounding is provided for green/yellow color variants and articles marked with PE. |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Dimensions

| | |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Pitch | 10 mm |
| Width [w] | 54.4 mm |
| External dimensions | |
| Width [w] | 54.4 mm |
| Height [h1] | 43 mm |
| Length [l1] | 25.7 mm |
| Internal dimensions | |
| Width [w] | 54.4 mm |
| Height [h2] | 42.8 mm |
| Length [l2] | 20.27 mm |

Electrical tests

Air clearances and creepage distances | 1. Insulation coordination

| | |
|--------------------------------------------------------|----------------------------------|
| 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) | 1000 V |
| Rated surge voltage (III/3) | 8 kV |
| minimum clearance value - non-homogenous field (III/3) | 8 mm |
| minimum creepage distance (III/3) | 12.5 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

Ambient conditions

| | |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 105 °C |

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| | |
|---------------------------------|-------------------------------------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |
|---------------------------------|-------------------------------------------------------------------------------|

Ambient conditions

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| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 105 °C |

Packaging specifications

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

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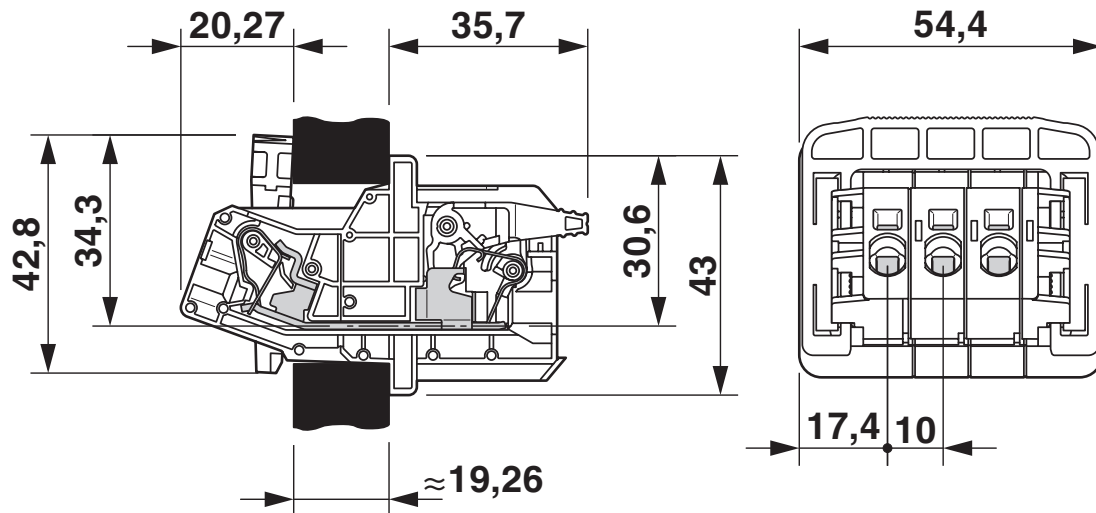


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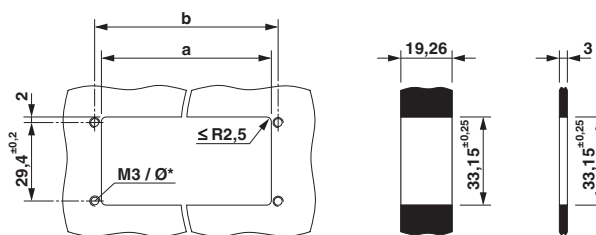
Drawings

Dimensional drawing



Dimension 54.4 mm for 3-pos. version;
4-pos.: 64.4 mm
5-pos.: 74.4 mm

Dimensional drawing



Dimension a = 43.9 mm ±0.25
Dimension b = 49 mm ±0.2

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1821067>

|  cULus Recognized Approval ID: E60425-20150120 | | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|-----------------------|-------------------|-----------------------------|
| B | | 600 V | 40 A | 16 - 6 | - |
| C | | 600 V | 40 A | 16 - 6 | - |

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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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