

# LPTA 16/ 2-15,0-ZB - PCB terminal block



1333870

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Printed circuit board terminal, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: LPTA 16/, pitch: 15 mm, connection method: Lever Push-in connection, mounting: Wave soldering, conductor/PCB connection direction: 30 °, color: green, Pin layout: Zigzag pinning W, Solder pin [P]: 3.6 mm, number of solder pins per potential: 3, type of packaging: packed in cardboard

## Your advantages

- Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- Clear lever positions provide reliable feedback on opened or closed clamping spaces
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed
- Intuitive operation, thanks to a color-coded actuation lever

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1333870                        |
| Packing unit                         | 25 pc                          |
| Minimum order quantity               | 25 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA15                           |
| Product key                          | AAOTAD                         |
| GTIN                                 | 4063151632724                  |
| Weight per piece (including packing) | 29.9 g                         |
| Weight per piece (excluding packing) | 29 g                           |
| Customs tariff number                | 85369010                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                           |                                |
|---------------------------|--------------------------------|
| Product type              | Printed circuit board terminal |
| Product family            | LPTA 16/                       |
| Product line              | COMBICON Terminals XL          |
| Number of positions       | 2                              |
| Pitch                     | 15 mm                          |
| Number of connections     | 2                              |
| Number of rows            | 1                              |
| Number of potentials      | 2                              |
| Pin layout                | Zigzag pinning W               |
| Solder pins per potential | 3                              |

### Electrical properties

#### Properties

|                             |        |
|-----------------------------|--------|
| Nominal current $I_N$       | 76 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

|                       |                    |
|-----------------------|--------------------|
| Nominal cross section | 16 mm <sup>2</sup> |
|-----------------------|--------------------|

#### Conductor connection

|                                                                                           |                                                                                             |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Connection method                                                                         | Lever Push-in connection                                                                    |
| Conductor cross-section rigid                                                             | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> (Conductor connection with open terminal point) |
|                                                                                           | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (Push-in connection)                             |
| Single-conductor/terminal point multi-stranded                                            | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                                 |
| Conductor cross-section flexible                                                          | 0.75 mm <sup>2</sup> ... 25 mm <sup>2</sup>                                                 |
| Conductor cross-section AWG                                                               | 18 ... 4                                                                                    |
| Conductor cross-section flexible, with ferrule without plastic sleeve                     | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                                 |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve                      | 0.75 mm <sup>2</sup> ... 10 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>                                                     |
| Stripping length                                                                          | 18 mm ... 20 mm                                                                             |

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## Mounting

|               |                  |
|---------------|------------------|
| Mounting type | Wave soldering   |
| Pin layout    | Zigzag pinning W |

## 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                                                                       |
| Metal surface terminal point (top layer) | Tin (10 - 16 µm Sn)                                                              |
| Metal surface soldering area (top layer) | Tin (10 - 16 µm Sn)                                                              |

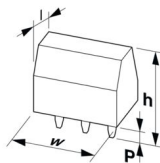
### Material data - housing

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| Color (Housing)                                                   | green (6021) |
| 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

|                                        |               |
|----------------------------------------|---------------|
| Color (Actuating element)              | orange (2003) |
| Insulating material                    | PA GF         |
| Insulating material group              | I             |
| CTI according to IEC 60112             | 600           |
| Flammability rating according to UL 94 | V0            |

## Dimensions

|                       |                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing   |  |
| Pitch                 | 15 mm                                                                                |
| Width [w]             | 26.9 mm                                                                              |
| Height [h]            | 45.8 mm                                                                              |
| Length [l]            | 37.4 mm                                                                              |
| Installed height      | 42 mm                                                                                |
| Solder pin length [P] | 3.6 mm                                                                               |

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|                |          |
|----------------|----------|
| Pin dimensions | 1 x 1 mm |
| PCB design     |          |
| Hole diameter  | 1.7 mm   |

## Mechanical tests

### 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 | 0.75 mm <sup>2</sup> / solid / > 30 N    |
|                                                                             | 0.75 mm <sup>2</sup> / flexible / > 30 N |
|                                                                             | 16 mm <sup>2</sup> / solid / > 100 N     |
|                                                                             | 25 mm <sup>2</sup> / flexible / > 135 N  |

## Electrical tests

### Temperature-rise test

|                                   |                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Specification                     | IEC 60947-7-4:2019-01                                                                                                          |
| Requirement temperature-rise test | The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. |

### Short-time withstand current

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60947-7-4:2019-01 |
|---------------|-----------------------|

### Insulation resistance

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

### Air clearances and creepage distances |

|                                                        |                       |
|--------------------------------------------------------|-----------------------|
| Specification                                          | IEC 60947-7-4:2019-01 |
| 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)                      | 8 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                |

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|                                  |        |
|----------------------------------|--------|
| minimum creepage distance (II/2) | 5.5 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           | 50 m/s <sup>2</sup> (60.1 Hz ... 150 Hz) |
| Test duration per axis | 2.5 h                                    |
| Test directions        | X-, Y- and Z-axis                        |

### Glow-wire test

|                  |                        |
|------------------|------------------------|
| Specification    | IEC 60695-2-10:2013-04 |
| Temperature      | 850 °C                 |
| Time of exposure | 5 s                    |

### Aging

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60947-7-4:2019-01 |
|---------------|-----------------------|

### Ambient conditions

|                                         |                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------|
| Ambient temperature (operation)         | -40 °C ... 105 °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                                                              |

## Packaging specifications

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

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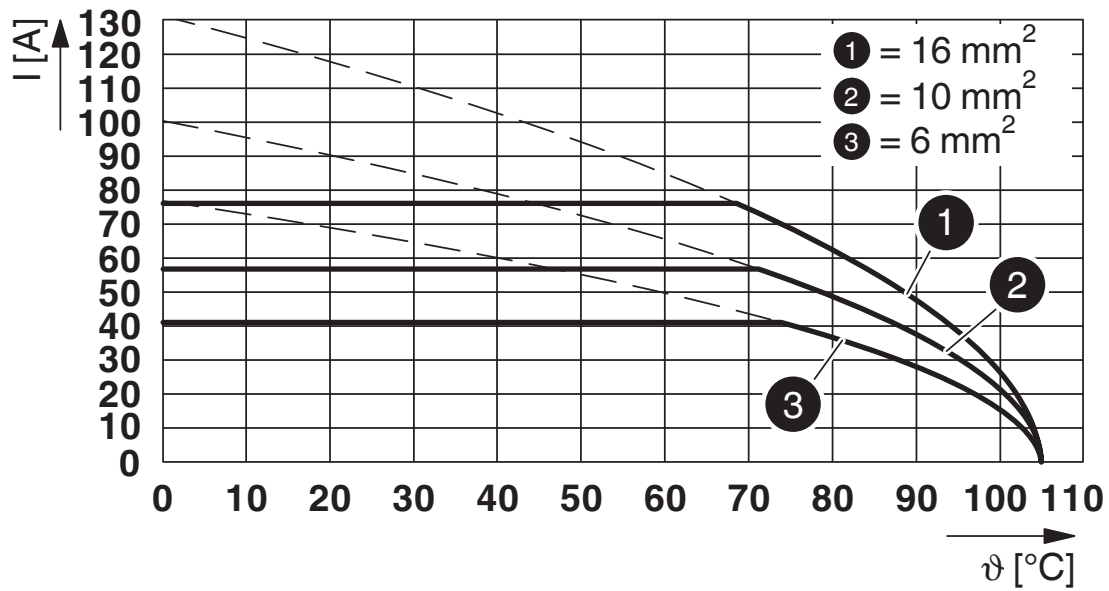


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## Drawings

Diagram



Type: LPTA 16/...-15,0-ZB

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1333870>

|  <b>cUL Recognized</b><br>Approval ID: E60425-20210507 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| C                                                                                                                                       | 1000 V                | 72 A                  | 18 - 4            | -                           |

|  <b>UL Recognized</b><br>Approval ID: E60425-20210507 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| C                                                                                                                                      | 600 V                 | 72 A                  | 18 - 4            | -                           |
| F                                                                                                                                      | 1000 V                | 72 A                  | 18 - 4            | -                           |
| E                                                                                                                                      | 1000 V                | 72 A                  | 18 - 4            | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-20210507 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                           | 600 V                 | 72 A                  | 18 - 4            | -                           |

|  <b>VDE approval of drawings</b><br>Approval ID: 40054188 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                              | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                        | 1000 V                | 76 A                  | -                 | 0.75 - 25                   |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002643 |
|----------|----------|

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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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 0.696 kg CO2e                            |

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