

# PCB terminal block - SPT 16/ 2-V-10,0-ZBV BK/RD - 1775330

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

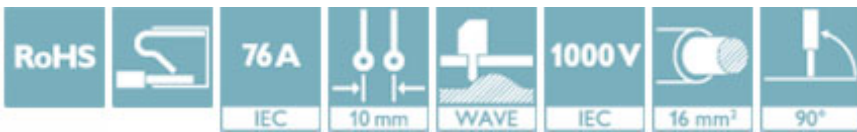


PCB terminal block, nominal current: 76 A, nom. voltage: 1000 V, pitch: 10 mm, number of positions: 2, connection method: Push-in spring connection, mounting: Wave soldering, color: multi-color

The figure shows a 5-pos. version of the product

## Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- ✓ Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- ✓ Vertical connection enables multi-row arrangement on the PCB



## Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4046356525367 |

## Technical data

### Item properties

|                           |                           |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block        |
| Range of articles         | SPT 16/..-V               |
| Pitch                     | 10 mm                     |
| Number of positions       | 2                         |
| Connection method         | Push-in spring connection |
| Mounting type             | Wave soldering            |
| Pin layout                | Zigzag pinning W          |
| Number of levels          | 1                         |

### Electrical parameters

|               |      |
|---------------|------|
| Rated current | 76 A |
|---------------|------|

# PCB terminal block - SPT 16/ 2-V-10,0-ZBV BK/RD - 1775330

## Technical data

### Electrical parameters

|                                  |        |
|----------------------------------|--------|
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2)      | 8 kV   |

### Connection capacity

|  |   |
|--|---|
| Conductor cross section solid  | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section flexible   | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross section AWG / kcmil  | 20 ... 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 same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.75 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Stripping length   | 18 mm                                       |

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

### Material data - housing

|   |        |
|---|--------|
| 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 |

### Dimensions for the product

|                             |            |
|-----------------------------|------------|
| Length [ l ]                | 24.7 mm    |
| Width [ w ]                 | 21.8 mm    |
| Height [ h ]                | 35.4 mm    |
| Pitch                       | 10 mm      |
| Height (without solder pin) | 31.3 mm    |
| Solder pin [P]              | 4.1 mm     |
| Pin spacing                 | 15 mm      |
| Pin dimensions              | 1.2 x 1 mm |
| Dimension a                 | 10 mm      |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.7 mm |
| Pin spacing   | 15 mm  |

# PCB terminal block - SPT 16/ 2-V-10,0-ZBV BK/RD - 1775330

## Technical data

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly)          | -5 °C ... 100 °C |
| Ambient temperature (operation)         | -40 °C           |

### Termination and connection method

|                 |                       |
|-----------------|-----------------------|
| Connection test | IEC 60998-2-2:2002-12 |
| Test result     | Test passed           |

### Pull-out test

|  |  |
|--|--|
| Pull-out test  | IEC 60998-2-2:2002-12                    |
|  | Test passed                              |
| Conductor cross section / conductor type / tensile force | 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     |
|  | 16 mm <sup>2</sup> / flexible / > 100 N  |

### Mechanical tests according to standard

|                    |                          |
|--------------------|--------------------------|
| Test specification | IEC 60998-2-2 (in parts) |
|--------------------|--------------------------|

### Electrical tests

|                                  |        |
|----------------------------------|--------|
| Rated current                    | 76 A   |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2)      | 8 kV   |

### Air clearances and creepage distances

|                                  |        |
|----------------------------------|--------|
| Insulating material group        | I      |
| Voltage                          | 1000 V |
| Rated insulation voltage (III/3) | 1000 V |
| Rated insulation voltage (III/2) | 1000 V |
| Rated insulation voltage (II/2)  | 1000 V |
| Rated surge voltage (III/3)      | 8 kV   |
| Rated surge voltage (III/2)      | 8 kV   |
| Rated surge voltage (II/2)       | 6 kV   |

### Current carrying capacity / derating curves

|               |                          |
|---------------|--------------------------|
| Specification | IEC 60998-2-2 (in parts) |
|---------------|--------------------------|

### Vibration test

|   |   |
|---|---|
| Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water | Test passed IEC 60998-1:2002-12 168 h/100°C 48 h/30 °C/92 % |
| Test result   | Test passed   |

# PCB terminal block - SPT 16/ 2-V-10,0-ZBV BK/RD - 1775330

## Technical data

### Vibration test

|                    |                     |
|--------------------|---------------------|
| Test specification | IEC 60998-1:2002-12 |
| Dry heat           | 168 h/100°C         |
| Humid heat         | 48 h/30 °C/92 %     |

### Resistance to ageing, humidity and penetration of solids

|                    |                     |
|--------------------|---------------------|
| Test result        | Test passed         |
| Test specification | IEC 60998-1:2002-12 |
| Dry heat           | 168 h/100°C         |
| Humid heat         | 48 h/30 °C/92 %     |

### Standards and Regulations

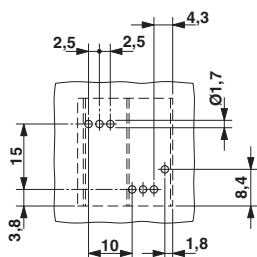
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

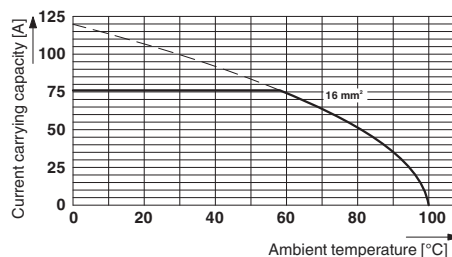
|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Drilling diagram

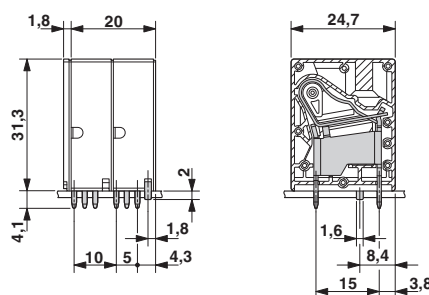


Diagram



Type: SPT 16/...-V-10,0-ZB  
 Test based on DIN EN 60512-5-2:2003-01  
 Reduction factor = 1  
 Number of positions: 5

Dimensional drawing



## PCB terminal block - SPT 16/ 2-V-10,0-ZBV BK/RD - 1775330

### Approvals

Approvals

---

Approvals


EAC

---

Ex Approvals

---

### Approval details

|     |   |         |
|-----|---|---------|
| EAC |  | B.01742 |
|-----|---|---------|

---

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9