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Printed circuit board terminal, nominal current: 16 A, nominal cross section: 1.5 mm<sup>2</sup>, number of rows: 1, number of positions per row: 11, product range: SPTAF 1/...-EL-EX, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 2.6 mm, number of solder pins per potential: 2, type of packaging: Tray

Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Finger-operated release button for very convenient operation
- Small component size for applications where space is at a premium
- Satisfies the more stringent safety requirements of “Ex eb” protection according to IEC 60079-7 for potentially explosive areas
- Quick and convenient testing using integrated test option

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1071008                        |
| Packing unit                         | 70 pc                          |
| Minimum order quantity               | 70 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AALBGA                         |
| Product key                          | AALBGA                         |
| GTIN                                 | 4063151100759                  |
| Weight per piece (including packing) | 5.5 g                          |
| Weight per piece (excluding packing) | 5.377 g                        |
| Customs tariff number                | 85369010                       |
| Country of origin                    | PL                             |

# SPTAF 1/11-3,5-EL-EX - PCB terminal block



1071008

<https://www.phoenixcontact.com/gb/products/1071008>

## Technical data

### Product properties

|                           |                                |
|---------------------------|--------------------------------|
| Product type              | Printed circuit board terminal |
| Product family            | SPTAF 1/...-EL-EX              |
| Product line              | COMBICON Terminals S           |
| Number of positions       | 11                             |
| Pitch                     | 3.5 mm                         |
| Number of rows            | 1                              |
| Pin layout                | Linear pinning                 |
| Solder pins per potential | 2                              |

### Electrical properties

#### Properties

|                       |      |
|-----------------------|------|
| Nominal current $I_N$ | 16 A |
| Nominal voltage $U_N$ | 44 V |

### Ex data

#### Ex approval

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Identification                  | 0344 <sup>Ex</sup> II 2G Ex eb IIC T6...T1 Gb |
| EU-type examination certificate | SEV 19 ATEX 0159 U                            |
| IECEx certificate               | IECEx SEV 19.0026U                            |

### Connection data

#### Connection technology

|                       |                     |
|-----------------------|---------------------|
| Nominal cross section | 1.5 mm <sup>2</sup> |
|-----------------------|---------------------|

#### Conductor connection

|                                                                       |                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection method                                                     | Push-in spring connection                                                                                                                                                                                                                   |
| Conductor cross section rigid                                         | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (When connecting and possibly adjusting a solid conductor of 1.5 mm <sup>2</sup> , the mechanical lateral forces, which can affect the terminal block, have to be absorbed by lateral support.) |
|                                                                       | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Push-in connection)                                                                                                                                                                           |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                                                                                                                                                                 |
| Conductor cross section AWG                                           | 24 ... 16                                                                                                                                                                                                                                   |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Conductor connection with open terminal point)                                                                                                                                               |
|                                                                       | 0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Push-in connection)                                                                                                                                                                           |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Conductor connection with open terminal point)                                                                                                                                               |
|                                                                       | 0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Push-in connection)                                                                                                                                                                           |
| Stripping length                                                      | 8 mm                                                                                                                                                                                                                                        |

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## Mounting

|               |                |
|---------------|----------------|
| Mounting type | Wave soldering |
| Pin layout    | Linear pinning |

## 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                  | hot-dip tin-plated                                                               |
| Metal surface terminal point (top layer) | Tin (2 - 4 µm Sn)                                                                |
| Metal surface soldering area (top layer) | Tin (2 - 4 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       |

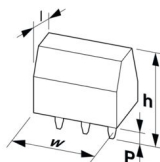
### Material data – actuating element

|                                        |               |
|----------------------------------------|---------------|
| Color (Actuating element)              | orange (2003) |
| Insulating material                    | PBT           |
| Insulating material group              | IIa           |
| CTI according to IEC 60112             | 275           |
| Flammability rating according to UL 94 | V0            |

## Notes

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Note on application   | Maximum permissible outer diameter of the wire insulation ≤ 3 mm    |
| Note on Ex protection | Certificate of conformity and EX certificate available upon request |
| Note on Ex protection | Further information is to be found in the installation notes.       |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
|---------------------|--------------------------------------------------------------------------------------|

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|                       |               |
|-----------------------|---------------|
| Pitch                 | 3.5 mm        |
| Width [w]             | 40 mm         |
| Height [h]            | 12.8 mm       |
| Length [l]            | 11 mm         |
| Installed height      | 10.2 mm       |
| Solder pin length [P] | 2.6 mm        |
| Pin dimensions        | 0.75 x 0.3 mm |

## PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.1 mm |
|---------------|--------|

## Mechanical tests

### Test for conductor damage and slackening

|               |                     |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result        | Test passed         |

### Repeated connection and disconnection

|               |                     |
|---------------|---------------------|
| 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 | 0.2 mm <sup>2</sup> / solid / > 10 N     |
|                                                                             | 0.25 mm <sup>2</sup> / flexible / > 10 N |
|                                                                             | 1.5 mm <sup>2</sup> / solid / > 40 N     |
|                                                                             | 1.5 mm <sup>2</sup> / flexible / > 40 N  |

## Electrical tests

### Temperature-rise test

|                                   |                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Specification                     | IEC 60947-7-4:2013-08                                                                                                          |
| 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 60947-7-4:2013-08 |
|---------------|-----------------------|

### Insulation resistance

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

## Environmental and real-life conditions

### Vibration test

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency     | 10 - 150 - 10 Hz      |
| Sweep speed   | 1 octave/min          |

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

## Aging

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60947-7-4:2013-08 |
|---------------|-----------------------|

## Ambient conditions

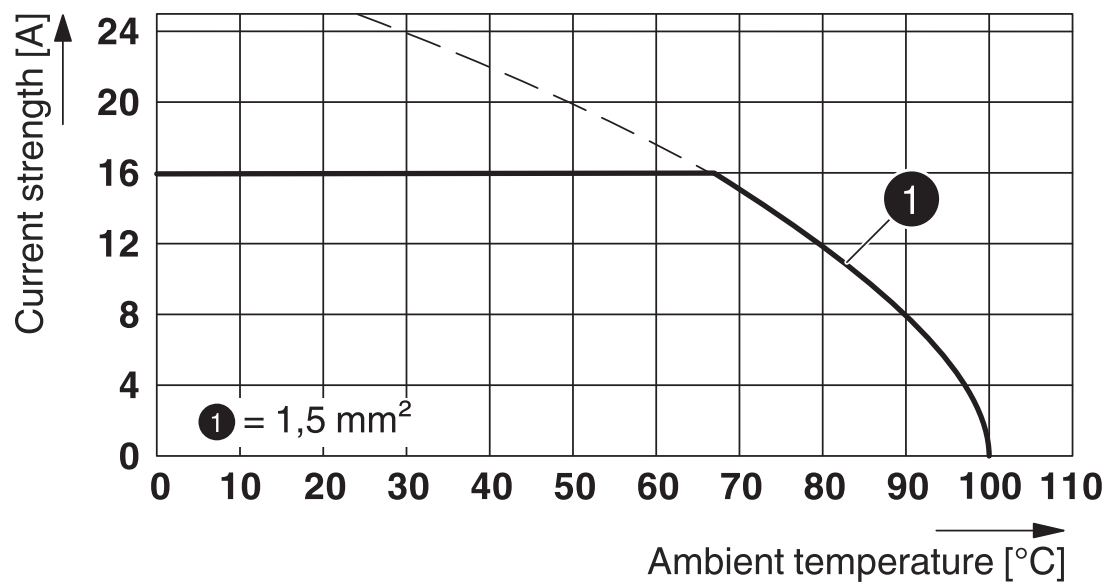
|                                         |                   |
|-----------------------------------------|-------------------|
| Ambient temperature (operation)         | -60 °C ... 100 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Relative humidity (storage/transport)   | 30 % ... 70 %     |
| Ambient temperature (assembly)          | -5 °C ... 100 °C  |

## Packaging specifications

|                   |      |
|-------------------|------|
| Type of packaging | Tray |
|-------------------|------|

## Drawings

Diagram



Type: SPTAF 1/...-3,5-IL(EL)

# SPTAF 1/11-3,5-EL-EX - PCB terminal block



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## Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1071008>



**IECEx**

Approval ID: IECEx SEV 19.0026U



**ATEX**

Approval ID: SEV 19 ATEX 0159 U

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## Classifications

### ECLASS

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

### ETIM

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

### 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% |
|-------------------------------------|----------------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.183 kg CO2e |
|---------|---------------|

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PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)