

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

1071019

<https://www.phoenixcontact.com/us/products/1071019>

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PCB terminal block, 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/..-IL-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
- Intuitive operation due to color-coded actuating push button
- 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	1071019
Packing unit	80 pc
Minimum order quantity	80 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBGC
GTIN	4063151100865
Weight per piece (including packing)	5.06 g
Weight per piece (excluding packing)	5.04 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Product properties

Product type	PCB terminal block
Product family	SPTAF 1/..-IL-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>Ⓢ</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>
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#### 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 $\mu\text{m}$ - 4 $\mu\text{m}$ Sn)
Metal surface soldering area (top layer)	Tin (2 $\mu\text{m}$ - 4 $\mu\text{m}$ 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	IIIa
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 $\leq 3$ 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]	10.6 mm
Length [l]	11 mm
Installed height	8 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.75 x 0.3 mm

## PCB design

Hole diameter	1.1 mm
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## 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
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### 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
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## Ambient conditions

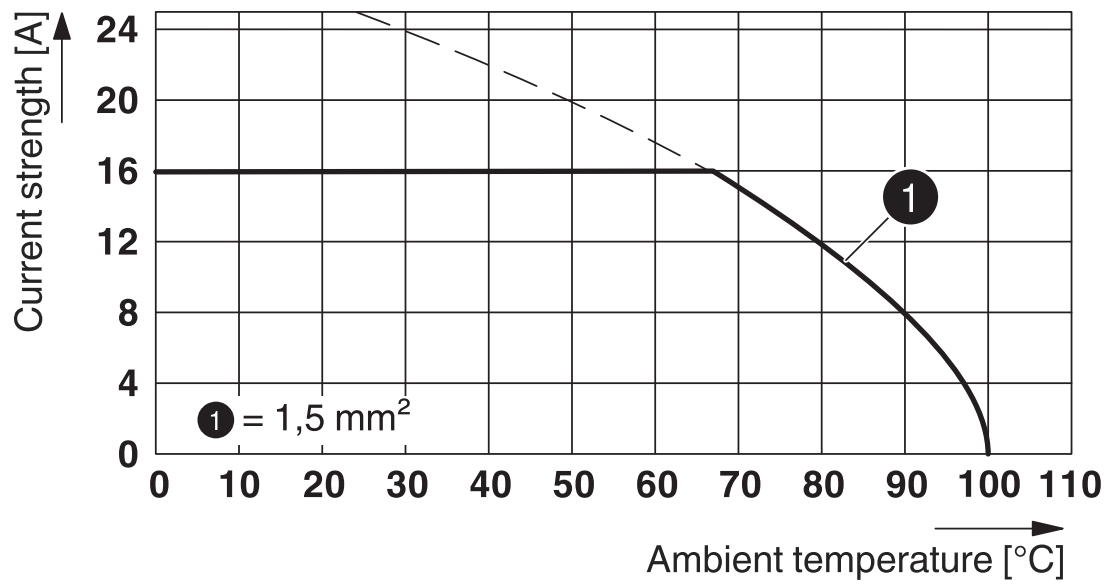
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-60 °C ... 100 °C

## Packaging specifications

Type of packaging	Tray
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## Drawings

Diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1071019>



**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
ECLASS-15.0	27460101

### ETIM

ETIM 10.0	EC002643
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	0.083 kg CO2e
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