

# SPT 35/ 3-V-15,00 - PCB terminal block

1845357

<https://www.phoenixcontact.com/us/products/1845357>

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Printed circuit board terminal, nominal current: 125 A, rated voltage (III/2): 1000 V, nominal cross section: 35 mm<sup>2</sup>, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: SPT 35/..-V, pitch: 15 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 5.9 mm, number of solder pins per potential: 4, type of packaging: packed in cardboard

## 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
- Vertical connection enables multi-row arrangement on the PCB

## Commercial data

Item number	1845357
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AA15
Product key	AAOBDA
GTIN	4046356989596
Weight per piece (including packing)	69.96 g
Weight per piece (excluding packing)	67 g
Customs tariff number	85369010
Country of origin	CN

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## Technical data

### Product properties

Product type	Printed circuit board terminal
Product family	SPT 35/...-V
Product line	COMBICON Terminals XL
Number of positions	3
Pitch	15 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	4

### Electrical properties

#### Properties

Nominal current $I_N$	125 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	35 mm <sup>2</sup>
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#### Conductor connection

Connection method	Push-in spring connection
Conductor cross-section rigid	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (Conductor connection with open terminal point) 4 mm <sup>2</sup> ... 35 mm <sup>2</sup> (Push-in connection)
Single-conductor/terminal point multi-stranded	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section flexible	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, without plastic sleeve	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Stripping length	25 mm

### Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

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## Material specifications

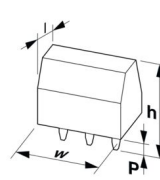
### Material data - contact

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

## Dimensions

Dimensional drawing	
Pitch	15 mm
Width [w]	47.75 mm
Height [h]	44.2 mm
Length [l]	35.2 mm
Installed height	38.3 mm
Solder pin length [P]	5.9 mm
Pin dimensions	1.5 x 1.5 mm

### PCB design

Pin spacing	16 mm
Hole diameter	2.2 mm

## Mechanical tests

### Test for conductor damage and slackening

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

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## Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross-section/conductor type/tractive force setpoint/actual value	1.5 mm <sup>2</sup> / solid / flexible / > 40 N
	16 mm <sup>2</sup> / solid / > 100 N
	35 mm <sup>2</sup> / stranded / > 190 N
	35 mm <sup>2</sup> / flexible / > 190 N
	4 mm <sup>2</sup> / solid / > 60 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
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### 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
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)

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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 60947-7-4:2019-01
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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)	-40 °C ... 105 °C (Depending on the current carrying capacity/derating curve)

## Packaging specifications

Type of packaging	packed in cardboard
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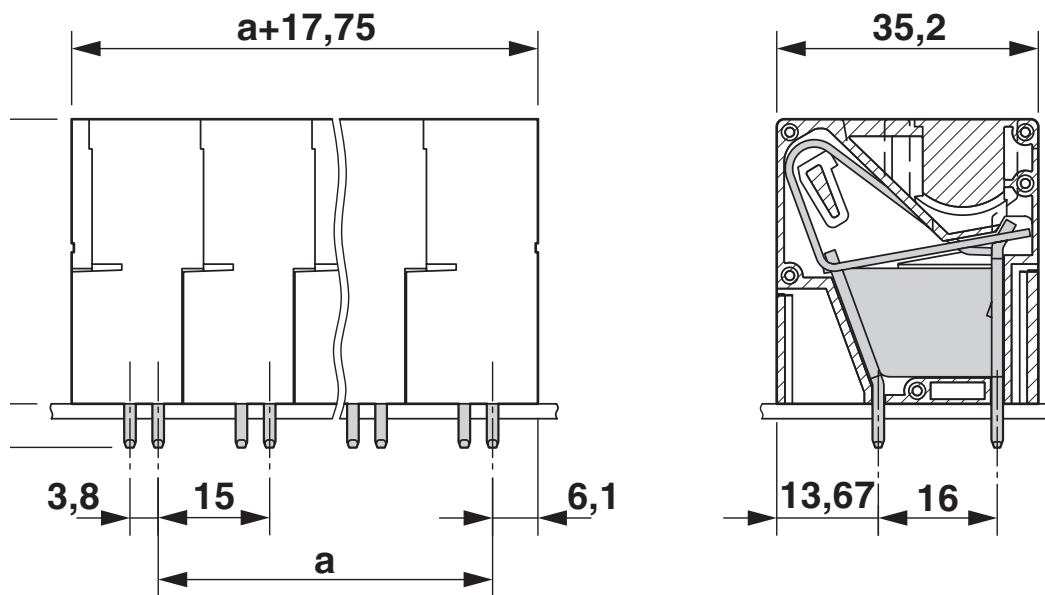
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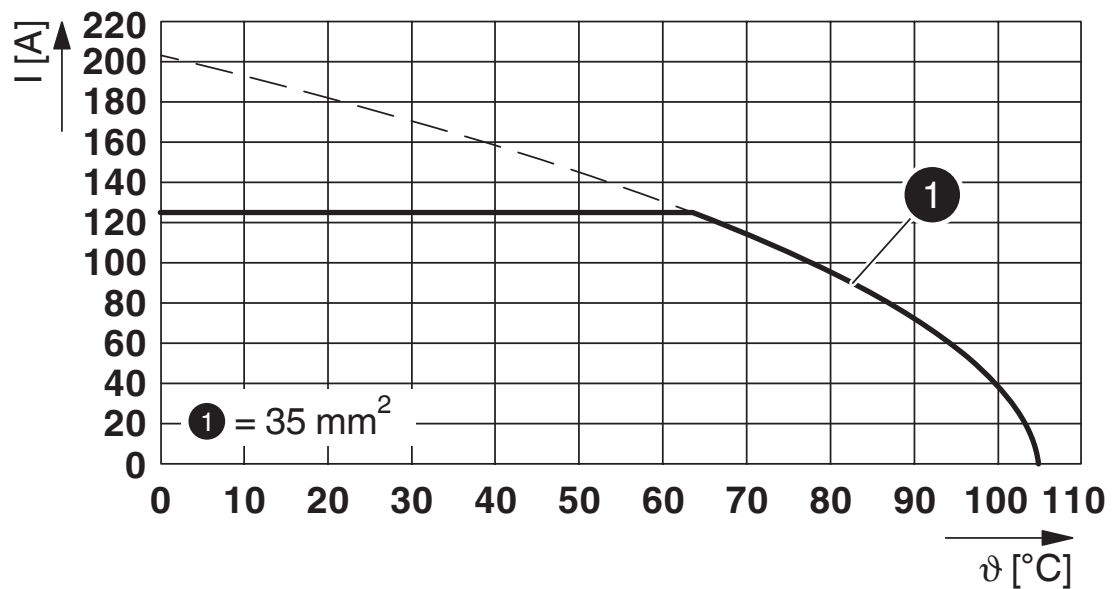
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## Drawings

Dimensional drawing



Diagram



Type: SPT 35/...-V-15,00

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## Approvals

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 <b>cULus Recognized</b> Approval ID: E60425-20061129				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	600 V	101 A	14 - 2	-
C	600 V	101 A	14 - 2	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 40042909				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	1000 V	125 A	-	1.5 - 35

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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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