

## PCB terminal block - PT 1,5/ 2-PVH-3,5-A - 1984167

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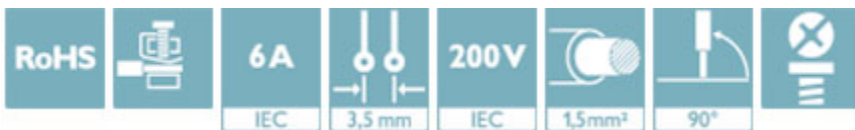
PCB connector, nominal current: 6 A, number of positions: 2, pitch: 3.5 mm, connection method: Screw connection with wire protector, color: green, contact surface: Tin



The figure shows the 10-position version

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ High terminal block capacity thanks to rectangular terminal block space
- ✓ Allows connection of two conductors
- ✓ Horizontal and vertical connection option for optimum conductor routing
- ✓ Items that can be aligned in various pitches support flexible and space-saving PCB assembly



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	250 pc
GTIN	
GTIN	4046356035996
Weight per Piece (excluding packing)	1.470 g
Custom tariff number	85366990
Country of origin	China

### Technical data

#### Item properties

Brief article description	PCB connector
Plug-in system	COMBICON COMPACT PST 1

## PCB terminal block - PT 1,5/ 2-PVH-3,5-A - 1984167

### Technical data

#### Item properties

Type of contact	Female connector
Range of articles	PT 1,5/..-PVH-A
Pitch	3.5 mm
Number of positions	2
Connection method	Screw connection with wire protector
Drive form screw head	Philipps recess with slotted Torx
Screw thread	M2
Locking	without
Number of levels	1
Number of connections	2
Number of potentials	2

#### Electrical parameters

Rated current	6 A
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#### Connection capacity

Conductor cross section solid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG / kcmil	26 ... 16
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Stripping length	5 mm
Torque	0.25 Nm ... 0.25 Nm

#### 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 (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 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

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### Technical data

#### Dimensions for the product

Length [ l ]	12.9 mm
Width [ w ]	7 mm
Height [ h ]	11 mm
Pitch	3.5 mm
Height (without solder pin)	11 mm
Dimension a	3.5 mm

#### Packaging information

Type of packaging	packed in cardboard
Pieces per package	250
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 ... 100 °C (dependent on the derating curve)

#### Termination and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

#### Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.2 mm <sup>2</sup> / solid / > 10 N
	0.2 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

#### Mechanical tests according to standard

Visual examination	Test passed IEC 60512-1-1:2002-02
Dimensional test	Test passed IEC 60512-1-2:2002-02
Resistance of marking	Test passed IEC 60068-2-70:1995-12
Result	Test passed
Specification	IEC 60512-7:1993-08
Insertion strength per pos. approx.	4 N
Withdraw strength per pos. approx.	4 N
Polarization and coding	Test passed IEC 60512-7:1993-08 (Polarization)
Result	Test passed
Specification	IEC 60512-8:1993-01

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#### Mechanical tests according to standard

Test force per pos.	20 N
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#### Air clearances and creepage distances

Specification	IEC 60664-1:2007-04
Rated insulation voltage (III/3)	160 V
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm
Minimum creepage distance value (III/3)	2 mm
Minimum creepage distance value (III/2)	1 mm
Minimum creepage distance value (II/2)	2 mm

#### Mechanical tests (A)

Insertion strength per pos. approx.	4 N
Withdraw strength per pos. approx.	4 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

#### Durability tests (B)

Specification	IEC 60512-5:1992-08
Contact resistance $R_1$	1.6 m $\Omega$
Insertion/withdrawal cycles	10
Contact resistance $R_2$	1.7 m $\Omega$
Impulse withstand voltage at sea level	2.5 kV
Power-frequency withstand voltage	2 kV
Insulation resistance, neighboring positions	> 10 T $\Omega$

#### Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	2 kV

#### Environmental and durability tests (E)

Result, degree of protection, IP code	Finger safety with IP20 test finger
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#### Environmental Product Compliance

	Lead 7439-92-1
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## Technical data

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27141109
eCl@ss 5.0	27141190
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

### UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	34131203
UNSPSC 12.01	39121432
UNSPSC 13.2	39121409

## Approvals

### Approvals

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Approvals

SEV / EAC / cULus Recognized


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## Approvals

Ex Approvals

### Approval details

SEV		<a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a>	IK-3558-M2
Nominal voltage UN		160 V	
Nominal current IN		6 A	
mm <sup>2</sup> /AWG/kcmil		1.5	

EAC		B.01742
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-20030211
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm <sup>2</sup> /AWG/kcmil	26-16	26-16	

## Accessories

Accessories

Coding element

Accessories - CP-PT 1,5 - 1985564

Coding profile, inserted into the hole on the plug, made from red insulating material, diameter: 1.35 mm



Labeled terminal marker

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### Accessories

Marker card - SK 3,5/2,8:FORTL.ZAHLEN - 0804073



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 99, mounting type: adhesive, for terminal block width: 3.5 mm, lettering field size: 3.5 x 2.8 mm

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### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip