

1985292

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Printed circuit board terminal, nominal current: 8 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 12, number of rows: 1, number of positions per row: 12, product range: PTSA 1,5, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Zigzag pinning W, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Offset soldering legs, two-rowed

#### Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Angled connection enables multi-row arrangement on the PCB

#### Commercial data

Item number	1985292
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	AA12
Product key	AALBDA
GTIN	4017918922375
Weight per piece (including packing)	6.358 g
Weight per piece (excluding packing)	5.978 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	PTSA 1,5
Product line	COMBICON Terminals S
Туре	PC termination block
Number of positions	12
Pitch	3.5 mm
Number of connections	12
Number of rows	1
Number of potentials	12
Pin layout	Zigzag pinning W
Solder pins per potential	1

#### Electrical properties

#### Properties

Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	400 V
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

#### Connection data

#### Connection technology

Туре	PC termination block
Nominal cross section	1.5 mm²
Conductor connection	

Conductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²
Stripping length	9 mm

#### Mounting



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Pin layout	Zigzag pinning W
terial specifications	
teriai specifications	
laterial 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 soldering area (top layer)	Tin (4 - 8 µm Sn)
laterial data - housing	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	T
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
laterial data – actuating element	
Color (Actuating element)	green (6021)
nensions	
Dimensional drawing	h

PCB design		
Pin spacing	3.5 mm	
Hole diameter	1 mm	

3.5 mm

43.5 mm

16.7 mm

12 mm

13.1 mm

3.5 mm

0.4 x 0.75 mm

#### Mechanical tests

Pitch

Width [w]

Height [h]

Length [I]

Installed height

Pin dimensions

Solder pin length [P]



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

#### Dull out too

Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / 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

#### Air clearances and creepage distances |

Air clearances and creepage distances		
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09	
Insulating material group	I	
Comparative tracking index (IEC 60112)	CTI 600	
Rated insulation voltage (III/3)	250 V	
Rated surge voltage (III/3)	4 kV	
minimum clearance value - non-homogenous field (III/3)	3 mm	
minimum creepage distance (III/3)	3.2 mm	
Note on connection cross section	With connected conductor 1.5 mm² (solid).	
Rated insulation voltage (III/2)	400 V	
Rated surge voltage (III/2)	4 kV	
minimum clearance value - non-homogenous field (III/2)	3 mm	
minimum creepage distance (III/2)	3 mm	
Rated insulation voltage (II/2)	630 V	
Rated surge voltage (II/2)	4 kV	
minimum clearance value - non-homogenous field (II/2)	3 mm	
minimum creepage distance (II/2)	3.2 mm	

#### Environmental and real-life conditions

#### Vibration test



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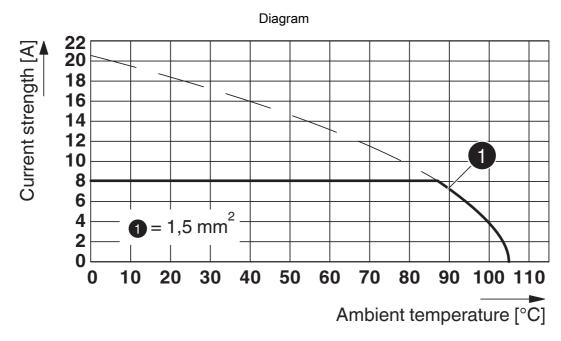
Specification	IEC 60068-2-6:2007-12		
Frequency	10 - 150 - 10 Hz		
Sweep speed	1 octave/min		
Amplitude	0.35 mm (10 Hz 60.1 Hz)		
Acceleration	5g (60.1 Hz 150 Hz)		
Test duration per axis	2.5 h		
Test directions	X-, Y- and Z-axis		
Claus wire teet			
Slow-wire test Specification	IEC 60695-2-10:2000-10		
Temperature	850 °C		
Time of exposure	5 s		
Aging			
Specification	IEC 60947-7-4:2013-08		
Ambient conditions			
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)		
Ambient temperature (storage/transport)	-40 °C 70 °C		
Relative humidity (storage/transport)	30 % 70 %		
Ambient temperature (assembly)	-5 °C 85 °C		
ckaging specifications			
Type of packaging	packed in cardboard		

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### **Drawings**

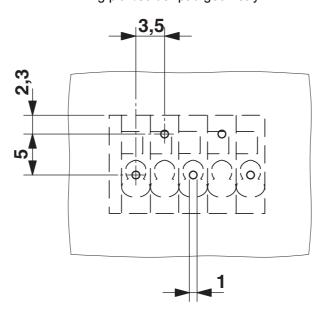


Type: PTSA 1,5/4-3,5-Z

Tested in accordance with DIN EN 60512-5-2:2003-01

Reduction factor = 1 Number of positions: 4

#### Drilling plan/solder pad geometry



The figure shows the drilling plan of the 5-pos. version of the article – Zig-zag pinning starts at the right-hand position. Other pinning available on request.



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1985292

CULus Recognized Approval ID: E60425-20030527				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	5 A	24 - 16	-
Use group D				
	300 V	5 A	24 - 16	-

VDE report with production monitoring Approval ID: 40018594					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	2 A	-	0.5 - 0.75

VDE approval of dr Approval ID: 40057505	VDE approval of drawings Approval ID: 40057505				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
	400 V	8 A	-	0.2 - 1.5	



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### Classifications

<b>ECLASS</b>
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	2.66				
	ECLASS-13.0	27460101			
E.	ETIM				
	ETIM 9.0	EC002643			
U	NSPSC				
	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%		

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