

1985373

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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: 20, number of rows: 1, number of positions per row: 20, 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	1985373
Packing unit	40 pc
Minimum order quantity	40 pc
Note	Made to order (non-returnable)
Sales key	AALBDA
Product key	AALBDA
Catalog page	Page 305 (CC-2005)
GTIN	4017918922443
Weight per piece (including packing)	10.89 g
Weight per piece (excluding packing)	9.211 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	20
Pitch	3.5 mm
Number of connections	20
Number of rows	1
Number of potentials	20
Pin layout	Zigzag pinning W
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	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

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1 III layout	2.92ag pg 11
aterial 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 (4 - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)
Material 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
Material data – actuating element	
Color (Actuating element)	green (6021)
mensions	
Dimensional drawing	1.8
	h
Pitch	3.5 mm
Width [w]	71.5 mm

Zigzag pinning W

PCB design	
Pin spacing	3.5 mm
Hole diameter	1 mm

16.7 mm

12 mm

13.1 mm

3.5 mm

0.4 x 0.75 mm

Mechanical tests

Height [h]

Length [I]

Installed height

Pin dimensions

Solder pin length [P]



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Test for	conductor	· damage	and sla	ckenina

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 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

IEC 60947-7-4:2013-08
The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
IEC 60947-7-4:2013-08
IEC 60512-3-1:2002-02
> 5 MΩ

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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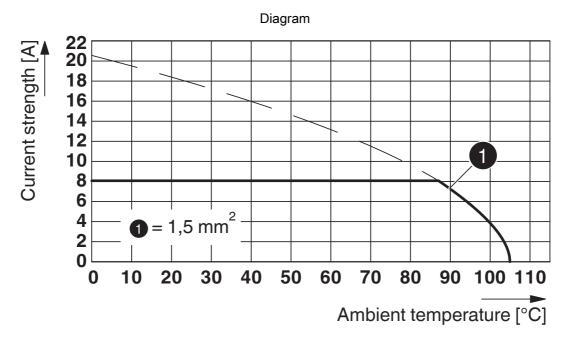
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
low-wire test	
Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s
Time of exposure	35
ging	
Specification	IEC 60947-7-4:2013-08
mbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying
Ambient temperature (operation)	capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 85 °C
kaging specifications	
Type of packaging	packed in cardboard

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Drawings

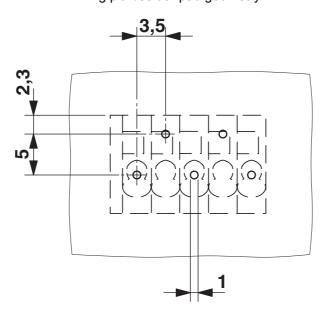


Type: PTSA 1,5/4-3,5-Z

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/gb/products/1985373

CULus Recognized Approval ID: E60425-20030527				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	5 A	24 - 16	-
Use group D				
	300 V	5 A	24 - 16	-

△YDE	VDE report with production monitoring Approval ID: 40018594				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 V	2 A	-	0.5 - 0.75

VDE approval of dr Approval ID: 40057505	awings			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	400 V	8 A	-	0.2 - 1.5



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Classifications

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		A.7.7

	ECLASS-13.0	27460101	
F.	ГІМ		
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	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%		

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