

1985331

https://www.phoenixcontact.com/us/products/1985331

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Printed circuit board terminal, nominal current: 8 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 16, number of rows: 1, number of positions per row: 16, 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	1985331
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AA12
Product key	AALBDA
GTIN	4017918922412
Weight per piece (including packing)	8.61 g
Weight per piece (excluding packing)	7.128 g
Customs tariff number	85369010
Country of origin	CN



1985331

https://www.phoenixcontact.com/us/products/1985331

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	16
Pitch	3.5 mm
Number of connections	16
Number of rows	1
Number of potentials	16
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

Commontion months of	Duels in agricultural segmentian
Conductor connection	
Nominal cross section	1.5 mm²
Туре	PC termination block

Conductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm ² 1.5 mm ²
Conductor cross section flexible	0.2 mm ² 1.5 mm ²
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

Mounting type Wave soldering



1985331

https://www.phoenixcontact.com/us/products/1985331

Pin layout	Zigzag pinning W
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 (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	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)	green (6021)

Dimensions

Dimensional drawing	n p
Pitch	3.5 mm
Width [w]	57.5 mm
Height [h]	16.7 mm
Length [I]	12 mm
Installed height	13.1 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.4 x 0.75 mm
PCB design	
Pin spacing	3.5 mm
Hole diameter	1 mm

Mechanical tests



1985331

https://www.phoenixcontact.com/us/products/1985331

Toot for conductor	damage and slackening	
rest for conductor	damade and slackening	

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

Air clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	l 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



1985331

https://www.phoenixcontact.com/us/products/1985331

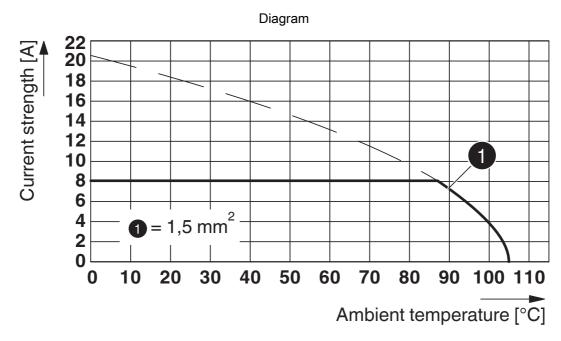
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
low-wire test	
Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s
Time of exposure	0.3
ging	
Specification	IEC 60947-7-4:2013-08
mbient 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
kaging specifications	
Type of packaging	packed in cardboard

1985331

https://www.phoenixcontact.com/us/products/1985331



Drawings

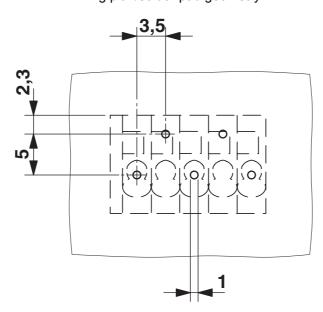


Type: PTSA 1,5/4-3,5-Z

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.



1985331

https://www.phoenixcontact.com/us/products/1985331

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1985331

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

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

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



1985331

https://www.phoenixcontact.com/us/products/1985331

Classifications

ECLASS

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
ET	IM	
	ETIM 9.0	EC002643
UN	ISPSC	

U

UNSPSC 21.0	39121400



1985331

https://www.phoenixcontact.com/us/products/1985331

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%
EF3.0 Climate Change	
CO2e kg	0.119 kg CO2e

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com