

1710318

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Printed circuit board terminal, nominal current: 8 A, rated voltage (III/2): 250 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: gray, Pin layout: Linear front pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Soldering legs in front area, one-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	1710318
Packing unit	80 pc
Minimum order quantity	80 pc
Note	Made to order (non-returnable)
Product key	AALBDA
GTIN	4055626146003
Weight per piece (including packing)	6.111 g
Weight per piece (excluding packing)	5.664 g
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
Number of positions	12
Pitch	3.5 mm
Number of connections	12
Number of rows	1
Number of potentials	12
Pin layout	Linear front pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	250 V
Rated voltage (III/3)	200 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Туре	PC termination block
Nominal cross section	1.5 mm²

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

Mounting type	Wave soldering
Pin layout	Linear front 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	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)	gray (7042)
Insulating material	PA
Insulating material group	1
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

3	
Color (Actuating alament)	erov (7042)
Color (Actuating element)	gray (7042)

Dimensions

Dimensional drawing	n h
Pitch	3.5 mm
Width [w]	43.5 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

1 mm

Mechanical tests

Hole diameter

Test for conductor damage and slackening



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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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N

Electrical tests

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
PCB terminal block shall not exceed the upper limiting temperature. IEC 60947-7-4:2013-08 IEC 60512-3-1:2002-02
IEC 60512-3-1:2002-02
IEC 60512-3-1:2002-02
> 5 MΩ
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
I
CTI 600
200 V
2.5 kV
1.5 mm
2.5 mm
With connected conductor 1.5 mm² (solid).
250 V
2.5 kV
1.5 mm
1.5 mm

Environmental and real-life conditions

minimum creepage distance (II/2)

minimum clearance value - non-homogenous field (II/2)

Rated insulation voltage (II/2)

Rated surge voltage (II/2)

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz

400 V

2.5 kV

1.5 mm

2 mm



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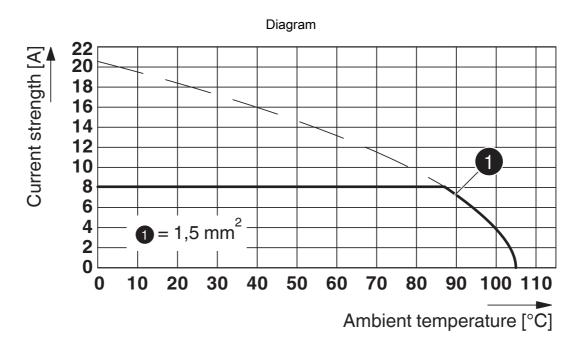
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
ow-wire test	
Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s
ging	
Specification	IEC 60947-7-4:2013-08
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
	30 % 70 %
Relative humidity (storage/transport)	30 /0 III 10 /0



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Drawings



Type: PTSA 1,5/...-3,5-F



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1710318

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	-

₩	VDE report with production monitoring Approval ID: 40018594				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		130 V	2 A	-	0.5 - 0.75

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



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Classifications

ECLASS				
	ECLASS-13.0	27460101		
ETIM				
	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
ELL DE ACIL CYALC	
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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