

1985153

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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: 21, number of rows: 1, number of positions per row: 21, 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: Linear 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	1985153
Packing unit	40 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBDA
GTIN	4017918922238
Weight per piece (including packing)	10.857 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	21
Pitch	3.5 mm
Number of connections	21
Number of rows	1
Number of potentials	21
Pin layout	Linear 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

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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terial 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)
aterial data - housing	
Color (Housing)	green (6021)
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
aterial data – actuating element	
Color (Actuating element)	green (6021)
ensions	
Dimensional drawing	h p
Pitch	3.5 mm
Width [w]	75 mm
Height [h]	16.7 mm
41 713	40

12 mm

13.1 mm

3.5 mm

3.5 mm

1 mm

0.4 x 0.75 mm

Linear pinning

Mechanical tests

Hole diameter

PCB design
Pin spacing

Length [I]

Installed height

Pin dimensions

Solder pin length [P]



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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 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
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

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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)	200 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Note on connection cross section	With connected conductor 1.5 mm² (solid).
Rated insulation voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	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

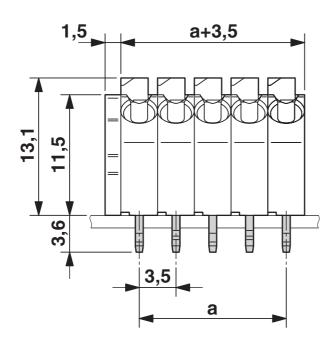


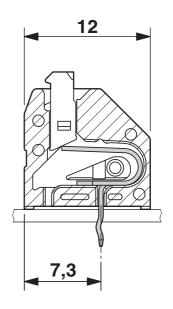
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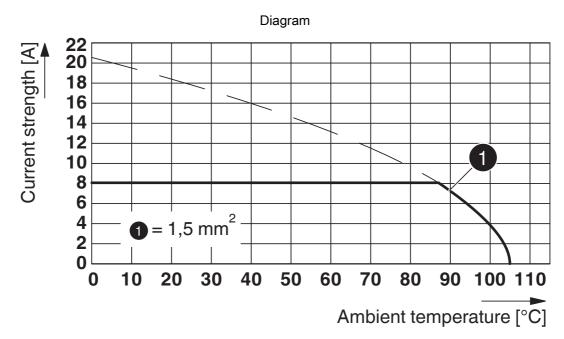
Drawings

Dimensional drawing





The figure shows the dimensional drawing of the 5-position product version



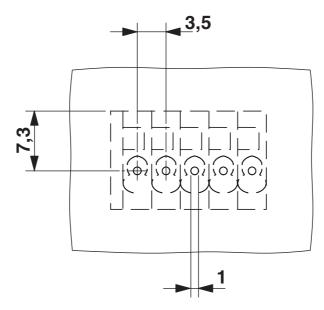
Type: PTSA 1,5/...-3,5-F



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Drilling plan/solder pad geometry



The figure shows the drilling diagram of the 5-position product version



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Approvals

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CULus Recog Approval ID: E60	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	-	

△YDE	VDE report with production monitoring Approval ID: 40018594				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		130 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					
		250 V	8 A	-	0.2 - 1.5



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Classifications

ECLASS

	ECLASS-13.0	27460101	
	ECLASS-15.0	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
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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