

1814566

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PCB terminal block, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: PTSM 0,5/..-V-THR WH, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: THR soldering / wave soldering, conductor/PCB connection direction: 90 °, color: signal white, Pin layout: Linear pinning, Solder pin [P]: 2.1 mm, number of solder pins per potential: 2, type of packaging: 44 mm wide tape

Your advantages

- · White design: Stable color when welding and during use
- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · High current carrying capacity of 6 A in very compact dimensions
- · Designed for integration into the SMT soldering process
- Vertical connection enables multi-row arrangement on the PCB

Commercial data

Item number	1814566
Packing unit	310 pc
Minimum order quantity	310 pc
Sales key	AA11
Product key	AAKCAD
Catalog page	Page 391 (C-1-2013)
GTIN	4046356760317
Weight per piece (including packing)	2.33 g
Weight per piece (excluding packing)	2.164 g
Customs tariff number	85369010
Country of origin	IN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	PTSM 0,5/V-THR WH
Product line	COMBICON Terminals XS
Туре	Component suitable for through hole reflow
Number of positions	2
Pitch	2.5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 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	Component suitable for through hole reflow
Nominal cross section	0.5 mm²

Conductor connection

onductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.2 mm ² 0.5 mm ² (up to 0.75 mm ² supported, with a stripping length of 7.5 mm and a rated insulation voltage of 32 V at III/2)
Conductor cross section AWG	26 20
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 0.34 mm ² (possible from 0.14 mm ² , when using ferrule AI 0.14- 6 GY in combination with crimping pliers CRIMPFOX 10T-F)
Stripping length	6 mm

Mounting

Mounting type	THR soldering / wave soldering
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Pin layout	Linear pinning
Processing notes	
Process	Reflow/wave soldering
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C
Solder cycles in the reflow	3

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)	signal white (9003)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Notes

Dimensions

Dimensional drawing	h p
Pitch	2.5 mm
Width [w]	5.5 mm
Height [h]	12.1 mm
Length [I]	5 mm
Installed height	10 mm
Solder pin length [P]	2.1 mm
Pin dimensions	0.3 x 0.8 mm
PCB design	
Pin spacing	2.5 mm

Pin spacing	2.5 mm
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Hole diameter	1.2 mm

Electrical tests

Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated insulation voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV

Environmental and real-life conditions

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 100 °C

Packaging specifications

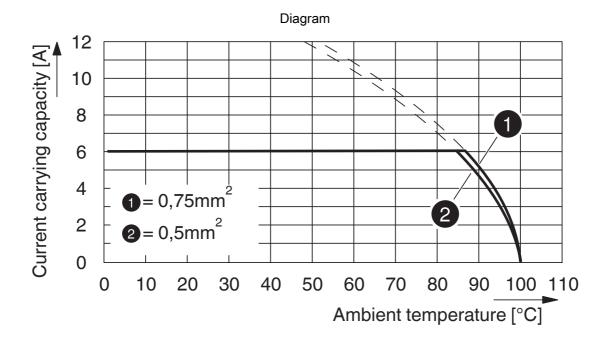
Dimensional drawing	
Type of packaging	44 mm wide tape
[W] tape width	44 mm
[W2] coil overall dimension	50.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



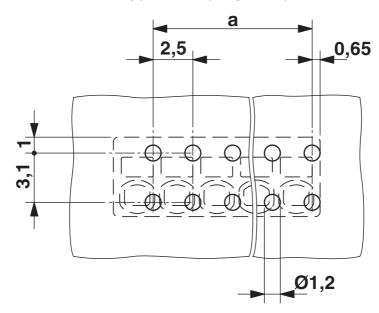
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Drawings



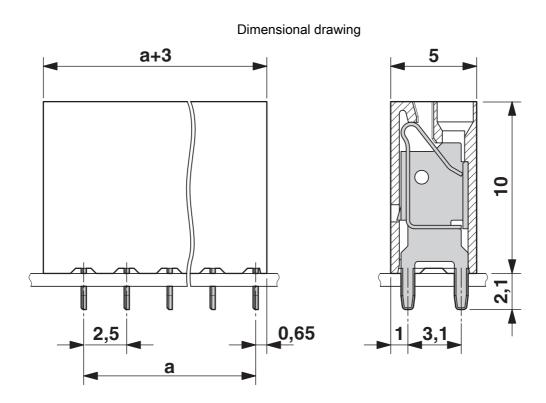
Drilling plan/solder pad geometry





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1814566

UL Recognized Approval ID: E118976-20130619				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	150 V	5 A	26 - 18	-

CULus Recognized Approval ID: E60425-20030527				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	150 V	5 A	26 - 20	-

VDE Zeichengeneh Approval ID: 40048725	nmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	160 V	6 A	-	0.14 - 0.5



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 9.0	EC002643
UNSPSC	

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