

1814634

https://www.phoenixcontact.com/in/products/1814634

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.



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/..-H-SMD WH, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: signal white, Pin layout: Linear pinning, number of solder pins per potential: 1, type of packaging: 24 mm wide tane

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
- Additional solder anchors reduce the mechanical strain on the soldering spots

Commercial Data

Item number	1814634
Packing unit	770 pc
Minimum order quantity	770 pc
Sales Key	AAK
Product Key	AAKDAB
Catalog Page	Page 393 (C-1-2013)
GTIN	4046356760386
Weight per Piece (including packing)	1.128 g
Weight per Piece (excluding packing)	1.082 g
Customs tariff number	85369010
Country of origin	IN



1814634

https://www.phoenixcontact.com/in/products/1814634

Technical Data

Product properties

Product line	COMBICON Terminals XS
Product type	Printed circuit board terminal
Product family	PTSM 0,5/H-SMD WH
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	1

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Degree of pollution	3
Rated voltage (III/3)	63 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)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Conductor connection

Connection method	Push-in spring connection
Conductor cross section solid	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 mm² 0.34 mm²
Cylindrical gauge a x b / diameter	- / 1.2 mm
Stripping length	6 mm

Mounting

Mounting type	SMD soldering
Pin layout	Linear pinning



1814634

https://www.phoenixcontact.com/in/products/1814634

Processing notes

Process	Reflow 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 GF
Insulating material group	T.
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material da	a – actuating	element
-------------	---------------	---------

Color ()	()
----------	----

Dimensions

Dimensional drawing	n p
Pitch	2.5 mm
Width [w]	7.6 mm
Height [h]	5.12 mm
Length [I]	9 mm
Installed height	5.12 mm
PCB design	
Pad geometry	1.4 x 3.4 mm

Mechanical tests

Connection test

Specification	IEC 60998-2-2:2002-12
Result	Test passed



1814634

https://www.phoenixcontact.com/in/products/1814634

Test for conductor damage and slackening

Specification	IEC 60998-2-2:2002-12
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-2:2002-12
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N

Specification	IEC 60998-2-2:2002-12
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N
setpoint/actual value	0.2 mm^2 / flexible / > 10 N
	$0.5 \text{ mm}^2 / \text{ solid } / > 20 \text{ N}$
	0.75 mm² / flexible / > 30 N

Flexion test		
	Specification	IEC 60998-2-2:2002-12
	Result	Test passed

Electrical tests

Temperature-rise test

Specification	IEC 60998-2-1:2002-12
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Insulation resistance

Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

7 iii olearanoes ana oreepage distanoes	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	63 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)	1.6 mm
Rated insulation voltage (III/2)	160 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)	320 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)	1.6 mm

Environmental and real-life conditions

Vibration test



1814634

https://www.phoenixcontact.com/in/products/1814634

Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
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 % 10 %

Packaging specifications

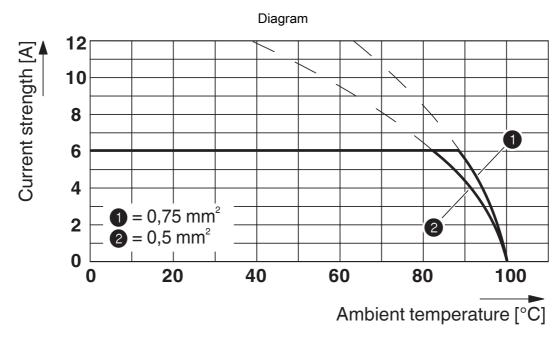
Dimensional drawing	W. A.
Type of packaging	24 mm wide tape
[W] tape width	24 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



1814634

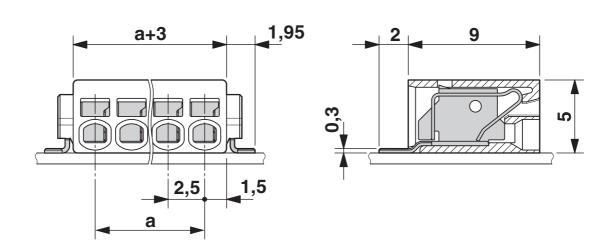
https://www.phoenixcontact.com/in/products/1814634

Drawings



Type: PTSM 0,5/...-2,5-H SMD WH (L) R.. Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 Number of positions: 5

Dimensional drawing

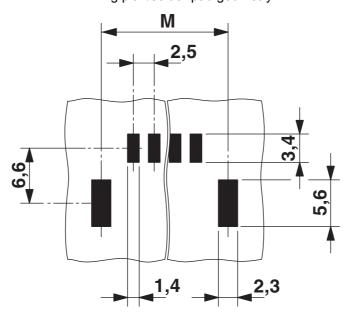




1814634

https://www.phoenixcontact.com/in/products/1814634

Drilling plan/solder pad geometry



Dimension M: 7.7 mm



1814634

https://www.phoenixcontact.com/in/products/1814634

Approvals

SUL Recognized Approval ID: E118976-2	0130619			
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	150 V	5 A	26 - 18	-

EHC	EAC
	Approval ID: B.01687

cULus Re Approval ID:	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 Zeichengenehmigung Approval ID: 40048725



1814634

https://www.phoenixcontact.com/in/products/1814634

Classifications

ECLASS

UNSPSC 21.0

	ECLASS-9.0	27440401			
	ECLASS-10.0.1	27440401			
	ECLASS-11.0	27460101			
ETIM					
	ETIM 8.0	EC002643			
UN	ISPSC				

39121400



1814634

https://www.phoenixcontact.com/in/products/1814634

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	



1814634

https://www.phoenixcontact.com/in/products/1814634

Accessories

SZS 0,4X2,0 - Screwdriver

1205202

https://www.phoenixcontact.com/in/products/1205202



Micro screwdriver, bladed, size: $0.4 \times 2.0 \times 60$ mm, 2-component grip, with non-slip grip and twist cap

AI 0,25-6 BU - Ferrule

3203040

https://www.phoenixcontact.com/in/products/3203040



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: blue



1814634

https://www.phoenixcontact.com/in/products/1814634

AI 0,25-6 YE - Ferrule

3203024

https://www.phoenixcontact.com/in/products/3203024



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow

AI 0,34-6 TQ - Ferrule

3203053

https://www.phoenixcontact.com/in/products/3203053



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: turquoise



1814634

https://www.phoenixcontact.com/in/products/1814634

SAMPLE PTSM 0,5/2-2,5-H SMDWH - PCB terminal block

1820929

https://www.phoenixcontact.com/in/products/1820929



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/..-H-SMD WH, pitch: 2.5 mm, connection method: Push-in spring connection, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: signal white, Pin layout: Linear pinning, Solder pin [P]: 2 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. SAMPLE set with 5 items in belt section. When used as part of soldering process, please use items without SAMPLE marking

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in