

1725672

https://www.phoenixcontact.com/us/products/1725672

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: $0.5 \, \text{mm}^2$, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: MPT 0,5, pitch: 2.54 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: $0\,^\circ$, 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

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Extremely small design for the respective conductor cross section

Commercial Data

Item number	1725672
Packing unit	1 pc
Minimum order quantity	250 pc
Sales Key	AA11
Product Key	AAKFAA
Catalog Page	Page 83 (C-1-2013)
GTIN	4017918116279
Weight per Piece (including packing)	1.208 g
Weight per Piece (excluding packing)	1.2 g
Customs tariff number	85369010
Country of origin	DE



https://www.phoenixcontact.com/us/products/1725672



Technical Data

Product properties

Туре	PC termination block
Product line	COMBICON Terminals XS
Product type	Printed circuit board terminal
Product family	MPT 0,5
Number of positions	4
Pitch	2.54 mm
Number of connections	4
Number of rows	1
Number of potentials	4
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

Туре	PC termination block
Nominal cross section	0.5 mm ²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section solid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.14 mm² 0.5 mm²
Conductor cross section AWG	26 20
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with same cross section, solid	0.14 mm² 0.34 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.34 mm²
Stripping length	4.5 mm
Tightening torque	0.12 Nm 0.15 Nm



https://www.phoenixcontact.com/us/products/1725672



Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)
Drive form screw head	Slotted (L)

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	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

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 ()	()
COIOI ()	()

Notes

Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing).
---------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Dimensions

Dimensional drawing	P
---------------------	---



https://www.phoenixcontact.com/us/products/1725672



Pitch	2.54 mm
Width [w]	10.62 mm
Height [h]	12 mm
Length [I]	6.2 mm
Installed height	8.5 mm
Solder pin length [P]	3.5 mm

Mechanical tests

		slackening

Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	

T dill out toot		
Specification	IEC 60999-1:1999-11	
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N	
setpoint/actual value	0.14 mm² / flexible / > 10 N	
	0.5 mm² / solid / > 20 N	
	0.5 mm² / flexible / > 20 N	

Electrical tests

Temperature-rise test

Specification	IEC 60947-7-4:2019-01	
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 60947-7-4:2019-01	
nsulation resistance		
Specification	IEC 60512-3-1:2002-02	
Insulation resistance, neighboring positions	> 5 MQ	

Air clearances and creepage distances	
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)	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



1725672

https://www.phoenixcontact.com/us/products/1725672

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
ironmental and real-life conditions	
ibration test	
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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
low-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
ging	
Specification	IEC 60947-7-4:2019-01
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C

Packaging specifications

Relative humidity (storage/transport)

Ambient temperature (assembly)

Type of packaging	packed in cardboard	

30 % ... 70 % -5 °C ... 100 °C

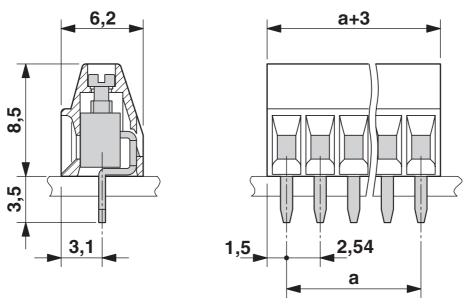


https://www.phoenixcontact.com/us/products/1725672

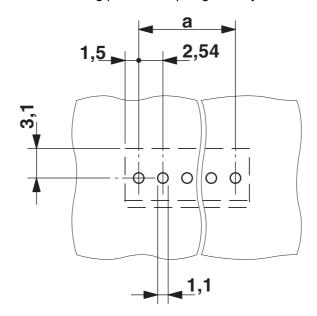


Drawings

Dimensional drawing



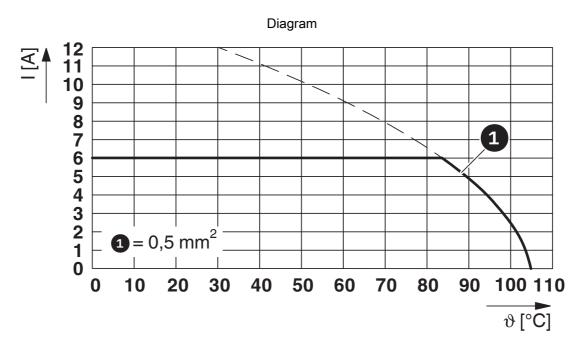
Drilling plan/solder pad geometry





1725672

https://www.phoenixcontact.com/us/products/1725672



Type: MPT 0,5/...-2,54

Phoenix Contact 2023 © - 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