1991642

https://www.phoenixcontact.com/us/products/1991642



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: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 3, product range: PT 1,5/..-H, pitch: 5 mm, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 0 °, 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
- · High terminal block capacity thanks to rectangular terminal block space
- · Allows connection of two conductors
- · The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1991642
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALFMB
GTIN	4017918964351
Weight per piece (including packing)	2.294 g
Weight per piece (excluding packing)	2.132 g
Customs tariff number	85369010
Country of origin	CN



https://www.phoenixcontact.com/us/products/1991642

Technical data

Product properties

Product type	Printed circuit board terminal
Product family	PT 1,5/H
Product line	COMBICON Terminals S
Туре	PC termination block
Number of positions	3
Pitch	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	17.5 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

PC termination block 1.5 mm ² Screw connection with wire protector 0.2 mm ² 2.5 mm ²
Screw connection with wire protector
•
0.2 mm ² 2.5 mm ²
0.2 mm² 2.5 mm²
26 14
0.25 mm ² 1.5 mm ²
0.25 mm² 1.5 mm²
0.2 mm² 0.75 mm²
0.2 mm² 0.75 mm²
0.25 mm ² 0.34 mm ²
0.5 mm² 0.75 mm²

PHŒNIX CONTACT



https://www.phoenixcontact.com/us/products/1991642

ferrule with plastic sleeve	
Stripping length	5 mm
Tightening torque	0.35 Nm 0.4 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

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 (3 - 12 µm Sn)
Metal surface terminal point (middle layer)	Nickel (1.5 - 4 µm Ni)
Metal surface soldering area (top layer)	Tin (3 - 12 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.5 - 4 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

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).
Note on application	When using ferrules and taking the specified stripping length into consideration, 250 V is only achieved in conjunction with overvoltage category/pollution degree II/2.

Dimensions

PHŒN

X



1991642

https://www.phoenixcontact.com/us/products/1991642

Dimensional drawing	h P
Pitch	5 mm
Width [w]	15 mm
Height [h]	14.8 mm
Length [I]	9 mm
Installed height	11.3 mm
Solder pin length [P]	3.5 mm
Pin dimensions	ø 1 mm
CB design	
Pin spacing	5 mm
Hole diameter	1.3 mm

Test for conductor damage and slackening

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 / flexible / > 10 N
	0.2 mm² / solid / > 10 N
	2.5 mm² / flexible / > 50 N
	2.5 mm² / solid / > 50 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
> 5 MΩ



1991642

https://www.phoenixcontact.com/us/products/1991642

Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Note on connection cross section	With connected conductor 2.5 mm ² (solid).
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

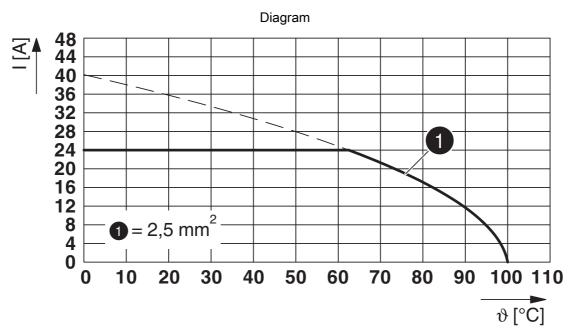
pecification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
w-wire test	
Specification	IEC 60695-2-10:2013-04
Femperature	850 °C
Time of exposure	5 s
ng	
Specification	IEC 60947-7-4:2013-08
bient 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
aging specifications	packed in cardboard



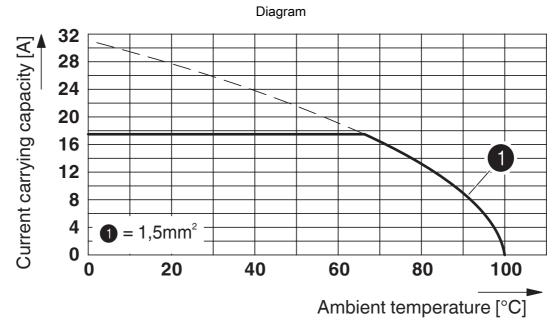
1991642

https://www.phoenixcontact.com/us/products/1991642

Drawings



Type: PT 1,5/...-5,0-H (S)



Type: PT 1,5/...-5,0-H

1991642

https://www.phoenixcontact.com/us/products/1991642



Classifications

ECLASS

	ECLASS-11.0	27460101		
	ECLASS-13.0	27460101		
ETIM				
	ETIM 8.0	EC002643		
UNSPSC				
	UNSPSC 21.0	39121400		



https://www.phoenixcontact.com/us/products/1991642

Environmental product compliance

EU RoHS

Yes				
6(c)				
China RoHS				
EFUP-50				
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.				
Lead(CAS: 7439-92-1)				
6a69f31b-ac5c-419b-b8ab-f8cd2d66b1c6				

Phoenix Contact 2024 © - 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

