

1935420

https://www.phoenixcontact.com/gb/products/1935420

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.



Printed circuit board terminal, nominal current: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 13, number of rows: 1, number of positions per row: 13, product range: PT 1,5/..-V, pitch: 5 mm, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 90 °, 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	1935420
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AALFMD
Product key	AALFMD
Catalog page	Page 421 (C-1-2013)
GTIN	4017918924003
Weight per piece (including packing)	13.21 g
Weight per piece (excluding packing)	12.61 g
Customs tariff number	85369010
Country of origin	CN



https://www.phoenixcontact.com/gb/products/1935420



Technical data

Product properties

Product type	Printed circuit board terminal
Product family	PT 1,5/V
Product line	COMBICON Terminals S
Туре	PC termination block
Number of positions	13
Pitch	5 mm
Number of connections	13
Number of rows	1
Number of potentials	13
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	17.5 A
Nominal voltage U _N	400 V
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

Connection technology

Туре	PC termination block
Nominal cross section	1.5 mm ²

Conductor connection

Conductor connection	
Connection method	Screw connection with wire protector
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	26 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with same cross section, solid	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm ² 0.75 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²



1935420

https://www.phoenixcontact.com/gb/products/1935420

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.75 mm²
Stripping length	5 mm
Tightening torque	0.35 Nm 0.4 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

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 (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	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

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	h P



1935420

https://www.phoenixcontact.com/gb/products/1935420

Pitch	5 mm
Width [w]	65 mm
Height [h]	12.5 mm
Length [I]	11.4 mm
Installed height	9 mm
Solder pin length [P]	3.5 mm
Pin dimensions	ø 1 mm
PCB design	
Pin spacing	5 mm
Hole diameter	1.3 mm

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60998-2-1:1990-04	
Result	Test passed	
Pull-out test		
Specification	IEC 60998-2-1:1990-04	
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N	
	0.2 mm² / flexible / > 10 N	
	2.5 mm² / solid / > 50 N	
	2.5 mm² / flexible / > 50 N	
Torque test		
Specification	IEC 60998-2-1:1990-04	

Electrical tests

Temperature-rise test Specification

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IFC 60998-2-1:1990-04

 $10^9\,\Omega$

IEC 60998-2-1:1990-04

Air clearances and creepage distances |

Insulation resistance, neighboring positions

All 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)	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 mm² (solid).			



1935420

https://www.phoenixcontact.com/gb/products/1935420

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

Vibration test

Specification	IEC 60068-2-6:1995-03	
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	

Glow-wire test

Specification	IEC 60998-2-1:1990-04	
Temperature	850 °C	
Time of exposure	5 s	

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

n cardboard

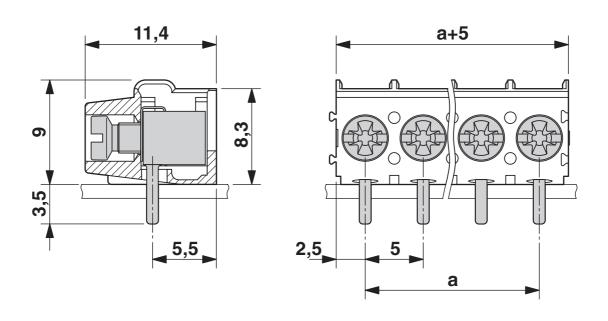


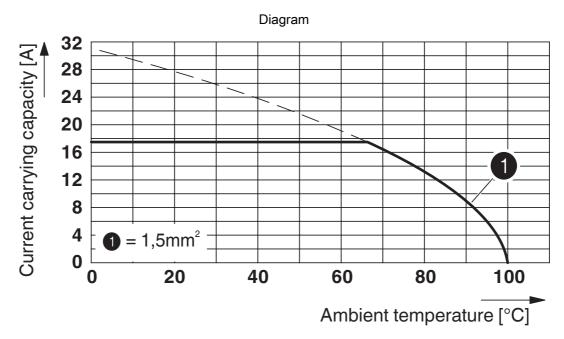
https://www.phoenixcontact.com/gb/products/1935420



Drawings

Dimensional drawing





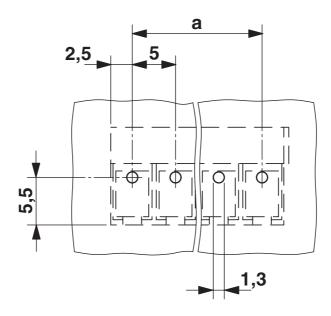
Type: PT 1,5/...-5,0-V



1935420

https://www.phoenixcontact.com/gb/products/1935420

Drilling plan/solder pad geometry





1935420

https://www.phoenixcontact.com/gb/products/1935420

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1935420

cULus Recognized Approval ID: E60425-20030211					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	300 V	18 A	26 - 12	-	
Use group D					
	300 V	10 A	26 - 12	-	

₩	VDE report with production monitoring Approval ID: 40031691				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 V	24 A	-	0.2 - 2.5

VDE approval of drawings Approval ID: 40055523				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	400 V	17.5 A	-	0.2 - 1.5



1935420

https://www.phoenixcontact.com/gb/products/1935420

Classifications

	ECLASS-13.0	27460101	
ETIM			
	ETIM 9.0	EC002643	
UNSPSC			
	UNSPSC 21.0	39121400	



1935420

https://www.phoenixcontact.com/gb/products/1935420

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%
EF3.0 Climate Change	
CO2e kg	0.276 kg CO2e

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk