

https://www.phoenixcontact.com/us/products/1935776



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: 32 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: PT 2,5/..-H, pitch: 5 mm, connection method: Screw connection with wire protector, screw head form: H1L Slotted Phillips recess, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.1 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. When using ferrules, 250 V are only achieved in combination with overvoltage category/degree of pollution II/2.

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	1935776
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA13
Product key	AAMFNA
GTIN	4017918948399
Weight per piece (including packing)	2.38 g
Weight per piece (excluding packing)	2.282 g
Customs tariff number	85369010
Country of origin	PL



https://www.phoenixcontact.com/us/products/1935776



Technical data

Product properties

Product type	Printed circuit board terminal
Product family	PT 2,5/H
Product line	COMBICON Terminals M
Туре	PC termination block
Number of positions	2
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

Properties

Nominal current I _N	32 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	2.5 mm²

Conductor connection

Conductor connection	
Connection method	Screw connection with wire protector
Conductor cross-section rigid	0.5 mm² 4 mm²
Conductor cross-section flexible	0.5 mm² 4 mm²
Conductor cross-section AWG	20 10
Conductor cross-section flexible, with ferrule without plastic sleeve	0.5 mm² 2.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm² 2.5 mm²
2 conductors with same cross section, solid	0.5 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.5 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 0.75 mm²



1935776

https://www.phoenixcontact.com/us/products/1935776

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	6.5 mm
Drive form screw head	Slotted Phillips recess (H1L)
Tightening torque	0.45 Nm 0.5 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	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
	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



https://www.phoenixcontact.com/us/products/1935776



Dimensional drawing	h p
Pitch	5 mm
Width [w]	10 mm
Height [h]	17.6 mm
Length [I]	9 mm
Installed height	13.5 mm
Solder pin length [P]	4.1 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 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	0.5 mm² / solid / > 20 N
	0.5 mm² / flexible / > 20 N
	4 mm² / solid / > 60 N
	4 mm² / flexible / > 60 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
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09



1935776

https://www.phoenixcontact.com/us/products/1935776

Les Taffers materials and	
Insulating material group	
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
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 te	st
--------------	----

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)
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 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2019-01

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °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

Type of packaging	packed in cardboard
-------------------	---------------------

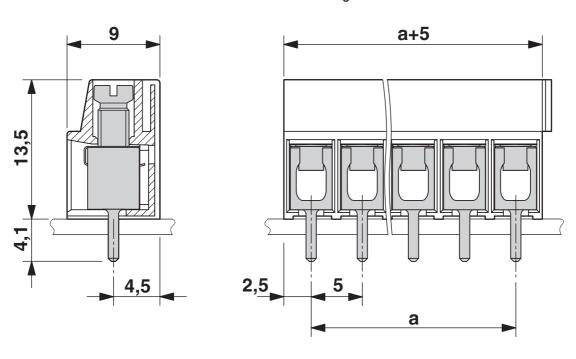


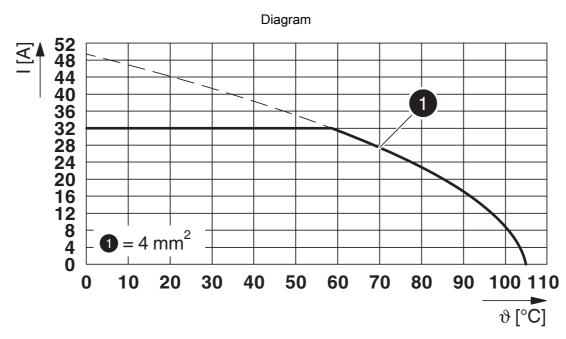
https://www.phoenixcontact.com/us/products/1935776



Drawings

Dimensional drawing





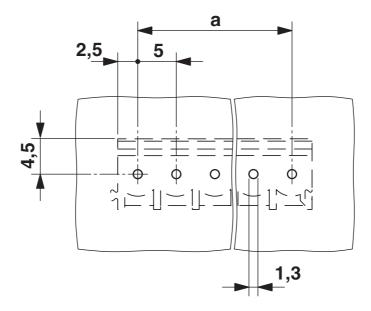
Type: PT 2,5/...-5,0-H



https://www.phoenixcontact.com/us/products/1935776



Drilling plan/solder pad geometry





https://www.phoenixcontact.com/us/products/1935776



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1935776

CULus Recognized Approval ID: E60425-20030211				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	20 A	20 - 12	-
D				
	300 V	10 A	20 - 12	-

₩ DE	VDE report with production monitoring Approval ID: 40029839				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	32 A	-	0.5 - 4



1935776

https://www.phoenixcontact.com/us/products/1935776

Classifications

ECLASS

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
ΕT	TIM	
	ETIM 9.0	EC002643
UN	ISPSC	

l

UNSPSC 21.0 39121400



1935776

https://www.phoenixcontact.com/us/products/1935776

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	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.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	740a6e5b-27c3-46af-9223-05843bbbf5d1
EF3.0 Climate Change	
CO2e kg	0.043 kg CO2e

Phoenix Contact 2025 © - 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