1987753

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 5, number of rows: 1, number of positions per row: 5, product range: PT 2,5/..-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]: 4.1 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	1987753
Packing unit	1 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA13
Product key	AAMFNC
Catalog page	Page 427 (C-1-2013)
GTIN	4017918973223
Weight per piece (including packing)	6.18 g
Weight per piece (excluding packing)	6.18 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Туре	PC termination block
Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	PT 2,5/V
Number of positions	5
Pitch	5 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	32 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

Connection technology	
Туре	PC termination block
Nominal cross section	2.5 mm ²
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 mm ² 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² 2.5 mm ²
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 mm ² 0.75 mm ²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm² 1.5 mm²

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ferrule with plastic sleeve	
Stripping length	6.5 mm
Tightening torque	0.45 Nm 0.5 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Connection method	Screw connection with wire protector

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 applicationFor 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



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Pitch	5 mm
Width [w]	25 mm
Height [h]	13.1 mm
Length [I]	13.5 mm
Installed height	9 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 60998-2-1:2002-12
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:2002-12
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
Torque test	
Specification	IEC 60998-2-1:2002-12

Electrical tests

Temperature-rise test

Specification	IEC 60998-1:2002-12
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	10 ⁹ Ω

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)	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



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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

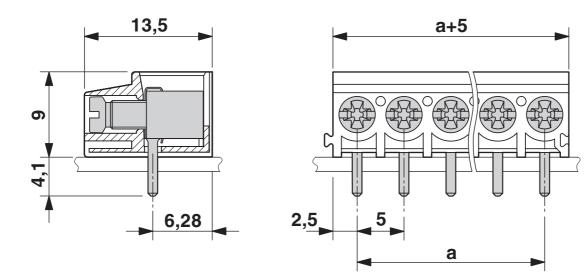
IEC 60068-2-6:1995-03
10 - 150 - 10 Hz
1 octave/min
0.35 mm (10 Hz 60.1 Hz)
5g (60.1 Hz 150 Hz)
2.5 h
IEC 60998-1:2002-12
850 °C
5 s
-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
-40 °C 70 °C
30 % 70 %
-5 °C 100 °C

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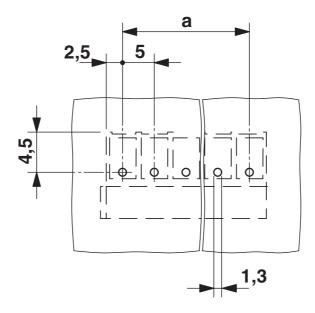
Drawings

Dimensional drawing



The figure shows the 5-pos. version

Drilling plan/solder pad geometry

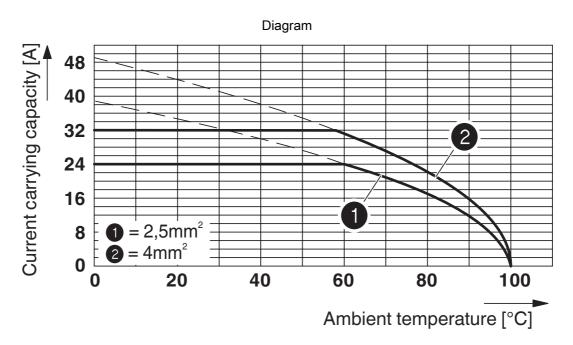


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Type: PT 2,5/...-5,0-V



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Approvals

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Approval ID: E60425-20030211				
	Nominal voltage U _N	Nominal current I_N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	20 A	20 - 12	-
Use group D				
	300 V	10 A	20 - 12	-

VDE Gutachten mit Fertigungsüberwachung Approval ID: 40029839				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	250 V	32 A	-	0.5 - 4

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Classifications

ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
ECLASS 12.0 27/20/01	ECLASS-12.0	27460101
ECLASS-13.0 27400101	ECLASS-13.0	27460101

ETIM

	ETIM 9.0	EC002643
UNSPSC		
	UNSPSC 21.0	39121400





Environmental product compliance

China RoHS

Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

SZS 0,6X3,5 - Screwdriver

1205053 https://www.phoenixcontact.com/us/products/1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

SK 5/3,8:FORTL.ZAHLEN - Marker card

0804183

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Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5×3.8 mm

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