

1725354

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PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 6, number of rows: 1, number of positions per row: 6, product range: PTDA 2,5/, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Potentials can be easily looped through ideal for BUS applications
- · Quick and convenient testing using integrated test option
- · Rounded type for individual device design
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial Data

Item number	1725354
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	AA13
Product Key	AAMBEA
Catalog Page	Page 409 (C-1-2013)
GTIN	4046356129299
Weight per Piece (including packing)	9.678 g
Weight per Piece (excluding packing)	9.085 g
Customs tariff number	85369010
Country of origin	PL



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Technical Data

Product properties

Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	PTDA 2,5/
Number of positions	6
Pitch	5 mm
Number of connections	12
Number of rows	1
Number of potentials	6
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I _N	24 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	320 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

Nominal cross section	2.5 mm ²

Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 1 mm ²
Stripping length	10 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning



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Connection method	Push-in spring connection
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 (4 - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)
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	Maximum permissible outside diameter of the wire insulation ≤3. 5 mm
Dimensions	
Dimensional drawing	h p
Pitch	5 mm
Width [w]	30 mm
Height [h]	19.5 mm
Length [I]	16 mm
Installed height	16 mm
Solder pin length [P]	3.5 mm
Pin dimensions	1 x 0.4 mm
PCB design	
Pin spacing	5 mm

1.3 mm

Hole diameter



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Mechanical tests

Charification	IEC 60000 2 2:2002 42	
Specification	IEC 60998-2-2:2002-12	
Result	Test passed	
est for conductor damage and slackening		
Specification	IEC 60998-2-2:2002-12	
Result	Test passed	
Pull-out test		
Specification	IEC 60998-2-2:2002-12	
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N	
setpoint/actual value	0.2 mm² / flexible / > 10 N	
	2.5 mm² / solid / > 50 N	
	2.5 mm² / flexible / > 50 N	
Flexion test		
Specification	IEC 60998-2-2:2002-12	
Result	Test passed	
nsulation holder for crimp connections		
Result	Test passed	

Electrical tests

Temperature-rise test Specification

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 5 MΩ

IEC 60998-2-1:2002-12

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	T .
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 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)	2 mm
Rated insulation voltage (II/2)	630 V



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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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s

Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

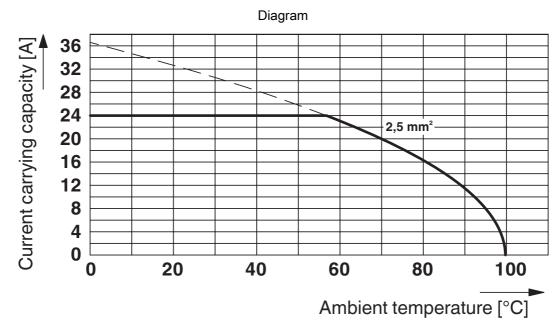


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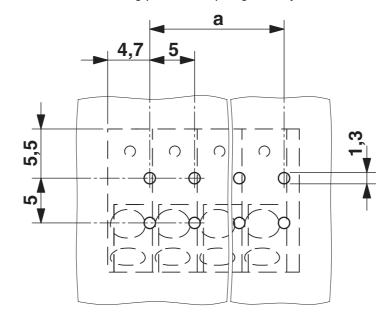


Drawings



Type: PTDA 2,5/...-5,0

Drilling plan/solder pad geometry

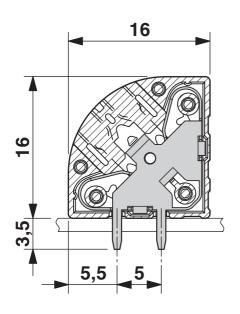


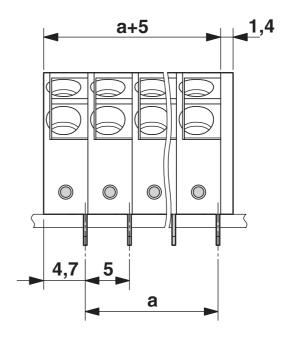


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Dimensional drawing







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1725354

CB scheme	IECEE CB Scheme Approval ID: DE1-64516				
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		250 V	24 A	-	0.2 - 2.5

EAC	EAC
LIIL	Approval ID: B.01687

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	15 A	24 - 14	-
Use group D				
	300 V	10 A	24 - 14	-

VDE Gutachten mit Fertigungsüberwachung Approval ID: 40030462					
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		250 V	24 A	-	0.2 - 2.5



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Classifications

ECLASS

	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
	ECLASS-13.0	27460101
ETIM		

ETIM 8.0	EC002643

UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Accessories

SZF 1-0,6X3,5 - Screwdriver

1204517

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

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