

1548363

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Printed circuit board terminal, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: SPT 2,5/..-V, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: multicolored, Pin layout: Linear pinning, Solder pin [P]: 2.5 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
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Operation and conductor connection from one direction enable integration into front of device
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial data

Item number	1548363
Packing unit	160 pc
Minimum order quantity	160 pc
Sales key	AA13
Product key	AAMBFF
GTIN	4067923023390
Weight per piece (including packing)	4.157 g
Weight per piece (excluding packing)	3.755 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	SPT 2,5/V
Product line	COMBICON Terminals M
Туре	PC termination block
Number of positions	3
Pitch	5 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Properties

Nominal current I _N	24 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

Data transmission

Signal type	Single Pair Ethernet
Frequency range	to 20 MHz
Transmission medium	Copper
Transmission characteristics (category)	CAT A
Data transmission rate	10 Mbps

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 4 mm²
Conductor cross-section flexible	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	24 12
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm ² 2.5 mm ²



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Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²		
Stripping length	10 mm		
pecifications for ferrules without insulating collar			
recommended crimping tool	1212034 CRIMPFOX 6		
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm		
	Cross section: 0.34 mm²; Length: 7 mm		
	Cross section: 0.5 mm²; Length: 8 mm		
	Cross section: 0.75 mm²; Length: 8 mm		
	Cross section: 1 mm²; Length: 8 mm		
	Cross section: 1.5 mm²; Length: 8 mm		
	Cross section: 2.5 mm²; Length: 8 mm		
pecifications for ferrules with insulating collar			
recommended crimping tool	1212034 CRIMPFOX 6		
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.25 mm²; Length: 8 mm		
•	Cross section: 0.34 mm²; Length: 8 mm		
	Cross section: 0.5 mm²; Length: 8 mm 10 mm		
	Cross section: 0.75 mm²; Length: 8 mm 10 mm		
	Cross section: 1 mm²; Length: 8 mm 10 mm		
	Cross section: 1.5 mm²; Length: 8 mm 10 mm		
	Cross section: 2.5 mm²; Length: 10 mm		
inting			
unting Mounting type	Wave soldering		
-	Wave soldering Linear pinning		
Mounting type Pin layout terial specifications			
Mounting type Pin layout terial specifications			
Mounting type Pin layout terial specifications laterial data - contact	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC		
Mounting type Pin layout terial specifications laterial data - contact Note	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201		
Mounting type Pin layout terial specifications flaterial data - contact Note Contact material	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy		
Mounting type Pin layout terial specifications laterial data - contact Note Contact material Surface characteristics	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated		
Mounting type Pin layout terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer)	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 µm Sn)		
Mounting type Pin layout terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer)	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 µm Sn)		
Mounting type Pin layout terial specifications Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)		
Mounting type Pin layout terial specifications laterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) laterial data - housing Color (Housing)	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)		
Mounting type Pin layout terial specifications daterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) daterial data - housing Color (Housing) Insulating material	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)		
Pin layout terial specifications Material data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) Material data - housing Color (Housing) Insulating material Insulating material group	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) multicolored (-) PA		
Mounting type Pin layout terial specifications flaterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface soldering area (top layer) flaterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	Linear pinning WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy Tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) multicolored (-) PA I 600		



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	Temperature for the ball pressure test according to EN 60695-10-2	125 °C
Din	nensions	
	Pitch	5 mm
		5 mm
	Width [w]	16.4 mm
	Height [h]	16.9 mm
	Length [I]	13.5 mm
	Installed height	14.4 mm
	Solder pin length [P]	2.5 mm
P	PCB design	
	Pin spacing	5 mm
	Hole diameter	1.2 mm
Ме	chanical tests	
Т	est for conductor damage and slackening	
	Specification	IEC 60999-1:1999-11
	Result	Test passed
P	Pull-out test	
	Specification	IEC 60999-1:1999-11
	Conductor cross-section/conductor type/tractive force	$0.2 \text{ mm}^2 / \text{solid} / > 10 \text{ N}$
	setpoint/actual value	0.2 mm² / flexible / > 10 N
		4 mm² / solid / > 60 N
		2.5 mm ² / flexible / > 50 N
	ctrical tests	
T	emperature-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.
S	Short-time withstand current	
	Specification	IEC 60947-7-4:2019-01
	nsulation resistance	
II	Specification	IEC 60512-3-1:2002-02
	Insulation resistance, neighboring positions	> 5 MΩ
Α	ir clearances and creepage distances 1. Insulation coordination	
	Application	without pitch spacer
	Specification	IEC 60947-7-4:2019-01
	Insulating material group	1



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minimum creepage distance (III/2)

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
Air clearances and granning distances I.2. Insulation coordination	
Air clearances and creepage distances 2. Insulation coordination	with RZ-SPT 2,5-2,5
Application	
Specification	IEC 60947-7-4:2019-01
Insulating material group	I CTL coo
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm
Air clearances and creepage distances 3. Insulation coordination	
Application	with RZ-SPT 2,5-5,0
Specification	IEC 60947-7-4:2019-01
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	630 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	8 mm
Rated insulation voltage (III/2)	800 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
The modern of the control of the con	•

8 mm



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Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV
minimum clearance value - non-homogenous field (II/2)	8 mm
minimum creepage distance (II/2)	8 mm

Environmental and real-life conditions

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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	50 m/s² (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

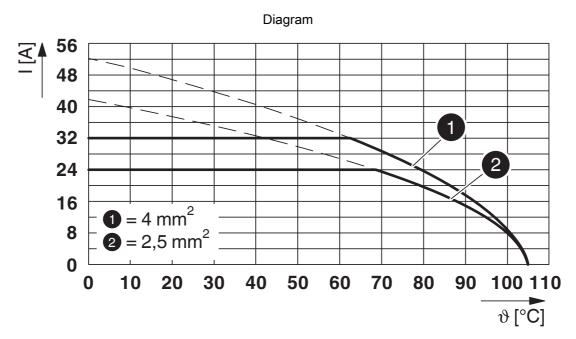
Type of packaging	packed in cardboard
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Drawings



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1548363

	CULus Recognized Approval ID: E60425-20061129			
	Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	20 A	24 - 12	-
С				
	150 V	20 A	24 - 12	-
D				
	150 V	15 A	24 - 12	-

	VDE Zeichengenehmigung Approval ID: 40042909	nehmigung 19			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
keine					
	400 V	32 A	-	0.2 - 4	



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Classifications

ECLASS

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
ΕT	ТІМ	
	ETIM 9.0	EC002643



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Environmental product compliance

EU RoHS

20 110110	
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	0.031 kg CO2e

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com