

1902547

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 1000 V, nominal cross section: 4 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: MKDS 5 HV, pitch: 9.52 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 5.2 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions! If used purely as 2-pos., we recommend version MKDSV 5 HV with anti-rotation pins.

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1902547
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA14
Product key	AANFDD
Catalog page	Page 445 (C-1-2013)
GTIN	4017918187606
Weight per piece (including packing)	6.616 g
Weight per piece (excluding packing)	6.616 g
Customs tariff number	85369010
Country of origin	PL



1902547

https://www.phoenixcontact.com/us/products/1902547

Technical data

Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals L
Product type	Printed circuit board terminal
Product family	MKDS 5 HV
Number of positions	2
Pitch	9.52 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	32 A
Nominal voltage U _N	1000 V
Degree of pollution	3
Rated voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	4 mm²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm² 6 mm²
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section AWG	24 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 4 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.75 mm²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm² 2.5 mm²



1902547

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ferrule with plastic sleeve	
Stripping length	8 mm
Tightening torque	0.5 Nm 0.6 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)
Drive form screw head	Slotted (L)

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

3	
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

General	Always ensure an alternating solder pin arrangement for blocks made up of multiple terminals. The specified voltages only apply for the correct pin order.
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Dimensions

Dimensional drawing	n p
Pitch	9.52 mm
Width [w]	19.04 mm
Height [h]	26.7 mm



1902547

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Length [I]	
Installed height	21.5 mm
Solder pin length [P]	5.2 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm
echanical tests Test for conductor damage and slackening	
Specification	IEC 60998-2-1:1990-04
Result	Test passed
Result	rest passed
Pull-out test	
Specification	IEC 60998-2-1:1990-04
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	6 mm² / solid / > 80 N
	4 mm² / flexible / > 60 N
Torque test	
Specification ectrical tests	IEC 60998-2-1:1990-04
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ectrical tests Temperature-rise test	
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Temperature-rise test Specification Requirement temperature-rise test Insulation resistance	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K
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Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 > 5 MΩ IEC 60664-1:2007-04 I
Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 > 5 MΩ IEC 60664-1:2007-04 I CTI 600
Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 800 V
Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 800 V 8 kV
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Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 800 V 8 kV 8 mm 10 mm
Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 800 V 8 kV 8 mm 10 mm 1000 V
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1902547

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	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
Environmental and real-life conditions		
1	/ibration test	
	O and if and if an	IFO 00000 0 0 400F 00

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

mbient 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		
	Type of packaging	packed in cardboard



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101	
ECLASS-12.0	27460101	
ECLASS-13.0	27460101	
ETIM		
ETIM 9.0	EC002643	
UNSPSC		

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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