

1731831

https://www.phoenixcontact.com/us/products/1731831

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PCB terminal block, nominal current: 13.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKKDSNH 1,5, pitch: 5.08 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]: 3.5 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!

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Extremely small design for the respective conductor cross section
- · Tall type enables conductor connection for sealed PCBs
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1731831
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALFJN
Catalog page	Page 93 (C-1-2013)
GTIN	4017918122508
Weight per piece (including packing)	4.08 g
Weight per piece (excluding packing)	3.575 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MKKDSNH 1,5
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	3
Pitch	5.08 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	13.5 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 terminal block can be aligned
Nominal cross section	1.5 mm²
Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor areas section flevible	0.14 mm² 1.5 mm²

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with same cross section, solid	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	$0.5~\text{mm}^2\ldots 1~\text{mm}^2$ (1st level: $0.5~\text{mm}^2\ldots 1~\text{mm}^2$ / 2nd level: $0.5~\text{mm}^2)$



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Stripping length	6 mm
Drive form screw head	Slotted (L)
Tightening torque	0.5 Nm 0.6 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 (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 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

Dimensions

Dimensional drawing	h h
Pitch	5.08 mm
Width [w]	15.24 mm
Height [h]	22.6 mm
Length [I]	8.6 mm
Installed height	19.1 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.5 x 1 mm



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Hole cliameter	PCB design	
Test for conductor damage and slackening IEC 60998-2-12002-12 Result Test passed	Hole diameter	1.3 mm
Result Test passed	Mechanical tests	
Pull-out test	Test for conductor damage and slackening	
Pull-out test	Specification	IEC 60998-2-1:2002-12
Specification IEC 60998-2-1:2002-12	Result	Test passed
Conductor cross section/conductor type/tractive force setpoint/actual value 0.14 mm² / solid / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N Torque test IEC 60998-2-1:2002-12 Electrical tests Temperature-rise test Specification IEC 60998-1:2002-12 Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions IEC 60998-1:2002-12 Air clearances and creepage distances IEC 60998-1:2002-12 Specification IEC 60998-1:2002-12 Insulation resistance, neighboring positions 10° Ω Air clearances and creepage distances IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 3 mm minimum clearance value - non-homogenous field (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm Rated insulation voltage (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) <t< td=""><td>Pull-out test</td><td></td></t<>	Pull-out test	
0.14 mm² / flexible / > 10 N	Specification	IEC 60998-2-1:2002-12
1.5 mm² / solid /> 40 N 1.5 mm² / flexible / 1.5 mm² / flexible // 40 N 1.5 mm²		0.14 mm² / solid / > 10 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° Ω Air clearances and creepage distances Specification IEC 60988-1:2002-12 Insulation resistance, neighboring positions 10° Ω Air clearances and creepage distances Specification IEC 60684-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 250 V Rated surge voltage (III/3) 3 mm minimum clearance value - non-homogenous field (III/2) 3 mm Note on connection cross section With connected conductor 1.5 mm² (solid). Rated surge voltage (III/2) 400 V Rated surge voltage (III/2) 3 mm minimum creepage distance (III/2) 4 kV minimum creepage distance (III/2) 3 mm minimum creepage distance (III/2) 4 kV minimum creepage distance (III/2) 3 mm	setpoint/actual value	0.14 mm² / flexible / > 10 N
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Electrical tests		1.5 mm² / flexible / > 40 N
Electrical tests	Torque test	
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° Ω Air clearances and creepage distances Specification IEC 60698-1:2002-12 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) 3.2 mm Note on connection cross section With connected conductor 1.5 mm² (solid). Rated insulation voltage (III/2) 400 V Rated surge voltage (III/2) 3 mm minimum creepage distance (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm minimum creepage distance (III/2) 4 kV minimum clearance value (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm Rated insulation voltage (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm		IEC 60998-2-1:2002-12
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Specification IEC 60998-1:2002-12 Insulation resistance, neighboring positions 10 ⁹ Ω Air clearances and creepage distances IEC 60664-1:2007-04 Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 250 V Rated surge voltage (III/3) 3 mm minimum clearance value - non-homogenous field (III/3) 3 mm Note on connection cross section With connected conductor 1.5 mm² (solid). Rated insulation 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 (III/2) 630 V Rated surge voltage (III/2) 4 kV minimum clearance value - non-homogenous field (III/2) 3 mm Rated surge voltage (III/2) 630 V Rated surge voltage (III/2) 3 mm	Requirement temperature-rise test	Increase in temperature ≤ 45 K
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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) Note on connection cross section Note on connection voltage (III/2) Rated insulation voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Minimum clearance value - non-homogenous field (III/2) Minimum clearance value - non-homogenous field (III/2) Rated insulation voltage (III/2) Minimum creepage distance (III/2) Rated insulation voltage (III/2) Rated surge voltage voltage (III/2) Rated surge voltage voltage (III/2) Rated surge voltage voltage voltage (III/2) Rated surge voltage vol	Air clearances and creepage distances	
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Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (II/2) Rated surge voltage (II/2) minimum clearance value - non-homogenous field (II/2) 3 mm Rated surge voltage (II/2) 4 kV minimum clearance value - non-homogenous field (II/2) 3 mm	minimum creepage distance (III/3)	3.2 mm
Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (II/2) Rated surge voltage (II/2) minimum clearance value - non-homogenous field (II/2) 3 mm 4 kV 4 kV minimum clearance value - non-homogenous field (II/2) 3 mm	Note on connection cross section	With connected conductor 1.5 mm² (solid).
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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 clearance value - non-homogenous field (III/2)	3 mm
Rated surge voltage (II/2) 4 kV minimum clearance value - non-homogenous field (II/2) 3 mm	minimum creepage distance (III/2)	3 mm
minimum clearance value - non-homogenous field (II/2) 3 mm	Rated insulation voltage (II/2)	630 V
	Rated surge voltage (II/2)	4 kV
minimum creepage distance (II/2) 3.2 mm	minimum clearance value - non-homogenous field (II/2)	3 mm
	minimum creepage distance (II/2)	3.2 mm



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Environmental and real-life conditions

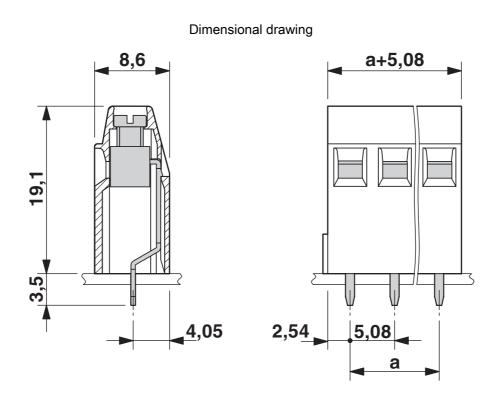
Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
bient conditions	
Ambient temperature (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

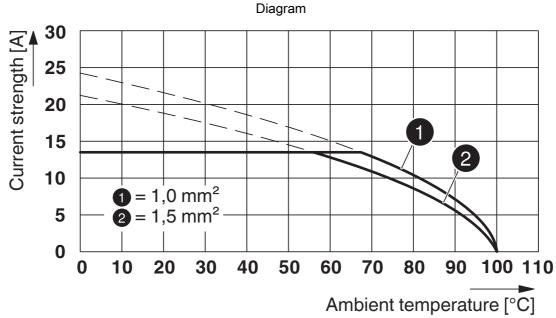


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Drawings





Type: MKKDSNH 1,5/...-5,08

Tested according to DIN EN 60512-5-2:2003-01

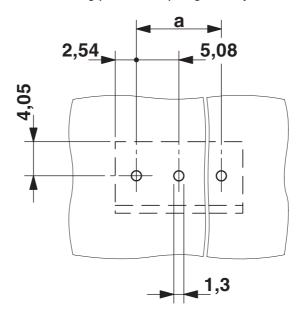
Reduction factor = 1 Number of positions: 5



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Drilling plan/solder pad geometry





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1731831

CULus Recognized Approval ID: E60425-19770427						
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²		
Use group B						
Screw connection	300 V	10 A	30 - 14	-		
2 conductors with the same cross-section	300 V	10 A	2X - 18	-		
Use group D						
Screw connection	300 V	10 A	30 - 14	-		
2 conductors with the same cross-section	300 V	10 A	2X - 18	-		



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Classifications

ECLASS

	ECLASS-11.0	27460101		
	ECLASS-12.0	27460101		
	ECLASS-13.0	27460101		
ETIM				
	ETIM 9.0	EC002643		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

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%



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Accessories



Note: Applying some accessories below might limit this product.

EBP 2-5 - Insertion bridge

1733169

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Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



Max. current carrying capacity: 12 A

EBP 3-5 - Insertion bridge

1733172

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Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



12 Max. current carrying capacity: 12 A



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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 5,08/3,8:FORTL.ZAHLEN - Marker card

0804293

https://www.phoenixcontact.com/us/products/0804293



Marker card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 3.8 mm



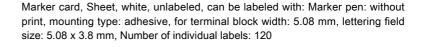
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SK 5,08/3,8:UNBEDRUCKT - Marker card

0805412

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