

1731831

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Printed circuit board terminal, 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
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



1731831

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

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

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 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 mm² 1.5 mm²
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



1731831

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

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm² (1st level: 0.5 mm² 1 mm² / 2nd level: 0. 5 mm²)
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	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

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



1731831

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

Pin dimensions	0.5 x 1 mm	
PCB design		
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	150 00000 0 1 0000 10	
Specification	IEC 60998-2-1:2002-12	
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.14 mm² / solid / > 10 N	
•	0.14 mm² / flexible / > 10 N	
	1.5 mm² / solid / > 40 N	
	1.5 mm² / flexible / > 40 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	
Landa Cara and Cara		
Insulation resistance	IEC 60998-1:2002-12	
Specification Insulation resistance, neighboring positions	10 ⁹ Ω	
insulation resistance, neighboring positions	10 12	
Air clearances and creepage distances		
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)	4 kV	
minimum clearance value - non-homogenous field (III/3)	3 mm	
minimum creepage distance (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)	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	



1731831

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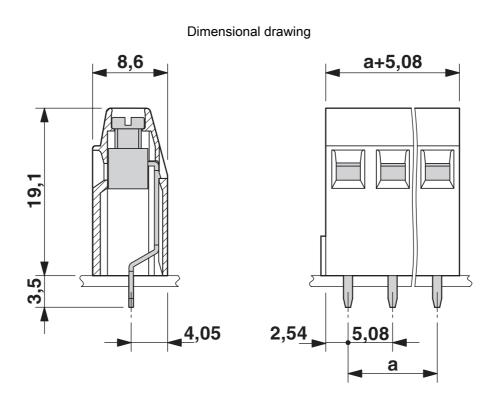
minimum creepage distance (II/2)		3.2 mm
Environmental and real-life condit	ions	
Vibration test		
Specification		IEC 60068-2-6:1995-03
Frequency		10 - 150 - 10 Hz
Sweep speed		1 octave/min
Amplitude		0.35 mm (10 Hz 60.1 Hz)
Acceleration		5g (60.1 Hz 150 Hz)
Test duration per axis		2.5 h
Test directions		X-, Y- and Z-axis
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 (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transp	port)	-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

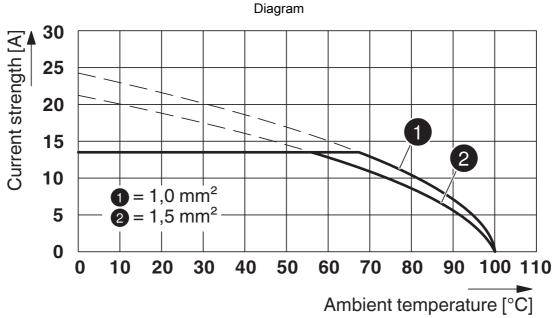


1731831

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Drawings





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

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

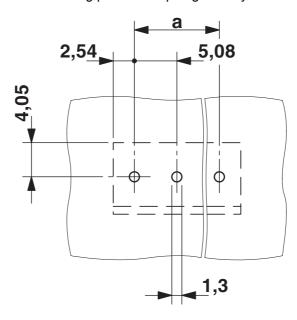
Reduction factor = 1 Number of positions: 5



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Drilling plan/solder pad geometry





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Approvals

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cULus Recognized Approval ID: E60425-19770427					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
В					
Screw connection	300 V	10 A	30 - 14	-	
2 conductors with the same cross-section	300 V	10 A	- 18	-	
D					
Screw connection	300 V	10 A	30 - 14	-	
2 conductors with the same cross-section	300 V	10 A	- 18	-	



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Classifications

ECLASS

	ECLASS-13.0	27460101			
	ECLASS-15.0	27460101			
ETIM					
	ETIM 9.0	EC002643			
UN	ISPSC				

UNSPSC 21.0 39121400



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Environmental product compliance

EU RoHS

20 1.0.10				
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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