

1731857

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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: 4, number of rows: 1, number of positions per row: 4, 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	1731857
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALFJN
Catalog page	Page 93 (C-1-2013)
GTIN	4017918122515
Weight per piece (including packing)	5.219 g
Weight per piece (excluding packing)	4.727 g
Customs tariff number	85369010
Country of origin	CN



1731857

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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	4
Pitch	5.08 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	1

Article revision 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

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Connection data

Connection technology

Nominal cross section 1.5 mm ²	Туре	PC terminal block can be aligned
	Nominal cross section	1.5 mm²

Conductor connection

Conductor Connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm ² 1.5 mm ²
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	0.25 mm ² 0.5 mm ²



1731857

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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 1 mm ² (1st level: 0.5 mm ² 1 mm ² / 2nd level: 0. 5 mm ²)
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]	20.32 mm
Height [h]	22.6 mm
Length [I]	8.6 mm
Installed height	19.1 mm



1731857

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Solder pin length [P]	3.5 mm
Pin dimensions	0.5 x 1 mm
PCB design	
Hole diameter	1.3 mm
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60998-2-1:2002-12
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:2002-12
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Torque test	
Specification ectrical tests Temperature-rise test	IEC 60998-2-1:2002-12
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Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test	
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Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification	IEC 60998-1:2002-12 Increase in temperature ≤ 45 K IEC 60998-1:2002-12 10 ⁹ Ω IEC 60664-1:2007-04
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Specification ectrical tests 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 60998-1:2002-12
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Specification ectrical tests 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) Note on connection cross section Rated insulation voltage (III/2) Rated surge voltage (III/2)	IEC 60998-1:2002-12 Increase in temperature ≤ 45 K IEC 60998-1:2002-12 10 ⁹ Ω IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm With connected conductor 1.5 mm² (solid).
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Ambient temperature (assembly)

Packaging specifications

Type of packaging

minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm
nvironmental 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)
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/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %

-5 °C ... 100 °C

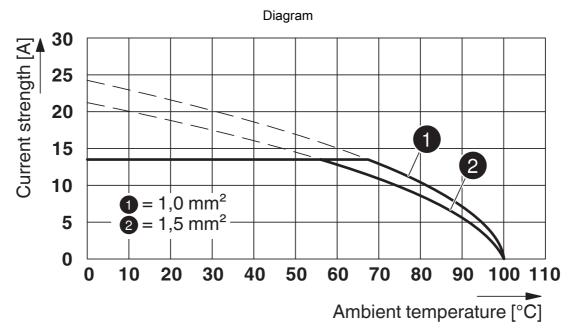
packed in cardboard



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Drawings

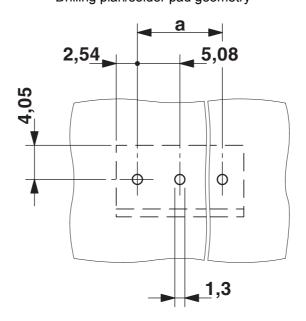


Type: MKKDSNH 1,5/...-5,08

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

Reduction factor = 1 Number of positions: 5

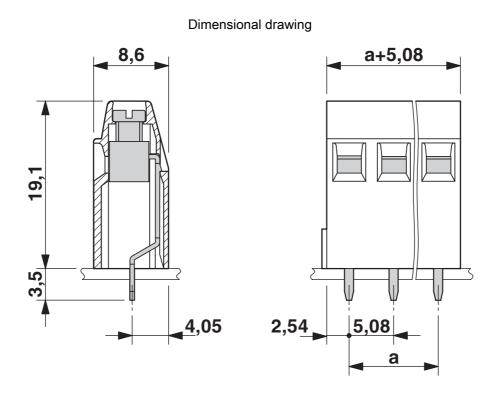
Drilling plan/solder pad geometry





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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
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

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

EU RoHS

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