MK3DSMH 3/3-5,08 - PCB terminal block



1723218

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PCB terminal block, nominal current: 22 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 6, number of rows: 2, number of positions per row: 3, product range: MK3DSMH 3, 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]: 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
- · Tall type enables conductor connection for sealed PCBs
- · Conductor connection on several levels enables higher contact density
- Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1723218
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA13
Product key	AAMFKN
Catalog page	Page 111 (C-1-2013)
GTIN	4017918025205
Weight per piece (including packing)	18.85 g
Weight per piece (excluding packing)	17.896 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	MK3DSMH 3
Product line	COMBICON Terminals M
Туре	PC terminal block can be aligned
Number of positions	3
Pitch	5.08 mm
Number of connections	6
Number of rows	2
Number of potentials	6
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	22 A
Nominal voltage U _N	400 V
Degree of pollution	3
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	2.5 mm²

Conductor connection

Connection method	Screw connection with tension sleeve		
Conductor cross section rigid	0.2 mm² 4 mm²		
Conductor cross section flexible	0.2 mm² 2.5 mm²		
Conductor cross section AWG	24 12		
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²		
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 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 0.5 mm²		

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ferrule with plastic sleeve	
Stripping length	7 mm
Tightening torque	0.5 Nm 0.6 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
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
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)

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	P
Pitch	5.08 mm
Width [w]	15.24 mm
Height [h]	49.8 mm
Length [I]	23.1 mm
Installed height	44.8 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm

PCB design

Hole diameter	1.3 mm

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Mechanical tests

Test for	conductor	damada	and c	lackening
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Specification	IEC 60998-2-1:1990-04
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:1990-04
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	4 mm² / solid / > 60 N
	2.5 mm² / flexible / > 50 N

IEC 60998-2-1:1990-04

Electrical tests

Specification

Temperature-rise test

Specification	IEC 60998-2-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Insulation resistance

Specification	IEC 60998-2-1:1990-04
Insulation resistance, neighboring positions	10 ⁹ Ω

IEC 60664-1:2007-04
T. Control of the con
CTI 600
250 V
4 kV
3 mm
3.2 mm
400 V
4 kV
3 mm
3 mm
630 V
4 kV
3 mm
3.2 mm

Environmental and real-life conditions

Vibration test

Specification IEC 60068-2-6:199	5-03
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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
low-wire test	
Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s
mbient conditions	
	12.00 102.00 /D II II II
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
kaging specifications	
Type of packaging	packed in cardboard

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