1729212

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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 11, number of rows: 1, number of positions per row: 11, product range: MKDSN 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

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
- · The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1729212
Packing unit	40 pc
Minimum order quantity	40 pc
Sales key	AA12
Product key	AALFHD
Catalog page	Page 91 (C-1-2013)
GTIN	4017918026080
Weight per piece (including packing)	10.59 g
Weight per piece (excluding packing)	9.983 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Product properties

Туре	PC termination block
Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	MKDSN 1,5
Number of positions	11
Pitch	5.08 mm
Number of connections	11
Number of rows	1
Number of potentials	11
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	17.5 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 termination block
Nominal cross section	1.5 mm ²
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 mm ² 1.5 mm ²
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 mm ² 0.75 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 0.5 mm ²
$\ensuremath{2}$ conductors with the same cross section, flexible, with \ensuremath{TWIN}	0.5 mm ² 0.75 mm ²

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ferrule with plastic sleeve	
Stripping length	6 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 (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

Notes

Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing).
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Dimensions

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Dimensional drawing	h PÅ
Pitch	5.08 mm
Width [w]	55.88 mm
Height [h]	13.5 mm
Length [I]	8.15 mm
Installed height	10 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.5 x 1 mm
PCB design	
Hole diameter	1.3 mm
Test for conductor damage and slackening Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm ² / solid / > 10 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / flexible / > 10 N
	0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
setpoint/actual value lectrical tests Temperature-rise test	0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N
setpoint/actual value	0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
setpoint/actual value lectrical tests Temperature-rise test Specification	0.14 mm ² / flexible / > 10 N 1.5 mm ² / solid / > 40 N 1.5 mm ² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting
setpoint/actual value lectrical tests Temperature-rise test Specification Requirement temperature-rise test	0.14 mm ² / flexible / > 10 N 1.5 mm ² / solid / > 40 N 1.5 mm ² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting
setpoint/actual value lectrical tests Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current Specification	0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
setpoint/actual value lectrical tests Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current Specification Insulation resistance	0.14 mm ² / flexible / > 10 N 1.5 mm ² / solid / > 40 N 1.5 mm ² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. IEC 60947-7-4:2019-01
setpoint/actual value lectrical tests Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current Specification	0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
setpoint/actual value lectrical tests Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current Specification Insulation resistance Specification Insulation resistance, neighboring positions	 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. IEC 60947-7-4:2019-01 IEC 60947-7-4:2019-01 IEC 60947-7-4:2019-01
setpoint/actual value lectrical tests Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current Specification Insulation resistance Specification	 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. IEC 60947-7-4:2019-01 IEC 60947-7-4:2019-01 IEC 60947-7-4:2019-01



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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 mm ² (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
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

bration test	
Specification	IEC 60068-2-6:2007-12
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
low-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
ging	
Specification	IEC 60947-7-4:2019-01
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °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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Classifications

ECLASS

ECLASS-12.0 27460101 ECLASS-13.0 27460101	ECLASS-11.0	27460101
ECLASS-13.0 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

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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