1719044

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PCB terminal block, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of potentials: 6, number of rows: 2, number of positions per row: 3, product range: MKKDS 5, pitch: 6.35 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]: 5.2 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
- · The latching on the side enables various numbers of positions to be combined
- · Conductor connection on several levels enables higher contact density

Commercial data

Item number	1719044
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA14
Product key	AANFEA
Catalog page	Page 449 (C-1-2013)
GTIN	4017918122720
Weight per piece (including packing)	21.62 g
Weight per piece (excluding packing)	21.62 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

1719044

Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals L
Product type	Printed circuit board terminal
Product family	MKKDS 5
Number of positions	3
Pitch	6.35 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	41 A
Nominal voltage U _N	630 V
Degree of pollution	3
Rated voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

PC terminal block can be aligned
4 mm²
Screw connection with tension sleeve
0.2 mm ² 6 mm ²
0.2 mm ² 6 mm ²
0.2 mm ² 6 mm ²
24 10
0.25 mm² 4 mm²
0.25 mm² 4 mm²
0.2 mm² 1.5 mm²
0.2 mm ² 1.5 mm ²
0.25 mm² 0.75 mm²

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2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 2.5 mm²
Stripping length	8 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 (4 - 8 μm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)

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 Pł
Pitch	6.35 mm
Width [w]	19.05 mm
Height [h]	44.1 mm
Length [I]	28 mm
Installed height	38.9 mm
Solder pin length [P]	5.2 mm
Pin dimensions	0.9 x 0.9 mm

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Hole dameter 1.3 mm Hole dameter Secilication Fest for conductor damage and slackening EC 60999-11999-11 Specification IEC 60999-11999-11 Reaut To espased Pull-out test Specification Specification IEC 60999-11999-11 Conductor cross section/conductor type/tractive force 0.2 mm? / solid /> 10 N Set of mark solid /> 28 N 0.2 mm? / festible /> 20 N Electrical test 0.2 mm? / festible /> 80 N Electrical tests Specification Specification IEC 60947-74/2013-08 Requirement temperature-rise test The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper liming temperature. Specification IEC 60947-74/2013-08 Requirement temperature-rise test The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper liming temperature. Specification IEC 60947-74/2013-08 Insulation resistance Specification Insulation resistance Specification Insulation resistance Specification Insulatin resistance Specification <th>PCB design</th> <th></th>	PCB design	
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Rated surge voltage (III/2)6 kVminimum clearance value - non-homogenous field (III/2)5.5 mmminimum creepage distance (III/2)3.2 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	minimum creepage distance (III/3)	6.3 mm
minimum clearance value - non-homogenous field (III/2) 5.5 mm minimum creepage distance (III/2) 3.2 mm Rated insulation voltage (II/2) 1000 V Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	Rated insulation voltage (III/2)	630 V
minimum creepage distance (III/2)3.2 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	Rated surge voltage (III/2)	6 kV
Rated insulation voltage (II/2) 1000 V Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum clearance value - non-homogenous field (III/2)	5.5 mm
Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum creepage distance (III/2)	3.2 mm
minimum clearance value - non-homogenous field (II/2) 5.5 mm	Rated insulation voltage (II/2)	1000 V
	Rated surge voltage (II/2)	6 kV
minimum creepage distance (II/2) 5 mm	minimum clearance value - non-homogenous field (II/2)	5.5 mm
	minimum creepage distance (II/2)	5 mm



1719044

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Environmental and real-life conditions

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
ow-wire test	
Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s
ing	
Specification	IEC 60947-7-4:2013-08
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

Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Carton



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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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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