

1707142

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Printed circuit board terminal, nominal current: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 12, number of rows: 2, number of positions per row: 6, product range: ZFKKDS(A) 2,5, pitch: 5.08 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, 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

- Defined contact force ensures that contact remains stable over the long term
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Conductor connection on several levels enables higher contact density
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1707142
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	AAMMAC
GTIN	4046356900270
Weight per piece (including packing)	17.78 g
Weight per piece (excluding packing)	17.72 g
Country of origin	IN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	ZFKKDS(A) 2,5
Product line	COMBICON Terminals M
Туре	PC terminal block can be aligned
Number of positions	6
Pitch	5.08 mm
Number of connections	12
Number of rows	2
Number of potentials	12
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	17.5 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

Conductor connection		
age connection		
С		

Connection method	Spring-cage connection
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 2.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Stripping length	7 mm

Mounting



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Pin layout	Linear pinning
aterial specifications	
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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 (10 - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 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
Material data – actuating element	
Color (Actuating element)	green (6021)
mensions	
Dimensional drawing	h

5.08 mm

31.48 mm

29 mm

24 mm

25.5 mm

3.5 mm

0.8 x 0.8 mm

PCB o	design
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Pitch

Width [w]

Height [h]

Length [I]

Installed height

Pin dimensions

Solder pin length [P]

Hole diameter	1.3 mm

Electrical tests

Air clearances and creepage distances |



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Specification	IEC 60664-1:2007-04
Insulating material group	T .
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
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

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 %
Ambient temperature (assembly)	-5 °C 100 °C

Packaging specifications

Type of packaging	packed in cardboard



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Approvals

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CULus Recognized Approval ID: E60425-19941111				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	250 V	10 A	26 - 12	-
D				
	300 V	10 A	26 - 12	-



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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

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%
EF3.0 Climate Change	
CO2e kg	0.171 kg CO2e

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