SMKDS 5/ 3-6,35 Z1L BD:17-19 - PCB terminal block



1991927

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of rows: 1, number of positions per row: 3, product range: SMKDS 5, pitch: 6.35 mm, connection method: Screw connection with tension sleeve, screw head form: Z1L Slotted Pozidriv, mounting: Wave soldering, conductor/PCB connection direction: 35 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 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
- · The latching on the side enables various numbers of positions to be combined
- · Angled connection enables multi-row arrangement on the PCB

Commercial data

Item number	1991927		
Packing unit	50 pc		
Minimum order quantity	50 pc		
Note	Made to order (non-returnable)		
Sales key	AA14		
Product key	AANFDO		
GTIN	4017918977078		
Weight per piece (including packing)	8.355 g		
Weight per piece (excluding packing)	8.355 g		
Customs tariff number	85369010		
Country of origin	PL		



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Technical data

Product properties

Product type	Printed circuit board terminal	
Product family	SMKDS 5	
Product line	COMBICON Terminals L	
Туре	PC terminal block can be aligned	
Number of positions	3	
Pitch	6.35 mm	
Number of rows	1	
Pin layout	Linear pinning	
Solder pins per potential	1	

Electrical properties

Nominal current I _N	32 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

connection technology		
Туре	PC terminal block can be aligned	
Nominal cross section	4 mm²	
conductor connection		
Connection method	Screw connection with tension sleeve	
Conductor cross section rigid	0.2 mm² 6 mm²	
Conductor cross section flexible	0.2 mm² 4 mm²	
Conductor cross section AWG	24 10	
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 4 mm²	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²	
2 conductors with same cross section, solid	0.2 mm ² 1.5 mm ²	
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ²	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 2.5 mm²	
Stripping length	8 mm	



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Tichtonian termin				
Tightening torque	0.5 Nm 0.6 Nm			
Mounting				
Mounting type	Wave soldering			
Pin layout	Linear pinning			
Drive form screw head	Slotted Pozidriv (Z1L)			
Material specifications Material data - contact				
Note WEEE/RoHS-compliant, free of whiskers according to 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	1			
CTI according to IEC 60112	600			
Flammability rating according to UL 94	V2			

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).

Dimensions

Hole diameter

Dimensional drawing	h P
Pitch	6.35 mm
Width [w]	19.05 mm
Height [h]	26.5 mm
Length [I]	18.5 mm
Installed height	21.5 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	0.9 X 0.9 1111

1.3 mm

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Electrical tests

Air clearances and o	creepage distances
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Specification	IEC 60664-1:2007-04		
Insulating material group	1		
Comparative tracking index (IEC 60112)	CTI 600		
Rated insulation voltage (III/3)	500 V		
Rated surge voltage (III/3)	6 kV		
minimum clearance value - non-homogenous field (III/3)	5.5 mm		
minimum creepage distance (III/3)	6.3 mm		
Rated insulation voltage (III/2)	630 V		
Rated surge voltage (III/2)	6 kV		
minimum clearance value - non-homogenous field (III/2)	5.5 mm		
minimum creepage distance (III/2)	5.5 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		

Environmental and real-life conditions

00 °C (Depending on the current carrying rating curve)
addig out to)
℃ C
%
℃ C
(

Packaging specifications

Type of packaging	packed in cardboard
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Approvals

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eRus cULus Recognized Approval ID: E60425-19870331					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	250 V	30 A	30 - 10	-	
Use group D					
	300 V	10 A	30 - 10	-	

VDE Zeichengenehmigung Approval ID: 40055394				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	630 V	32 A	-	0.2 - 4



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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 8.0	EC002643		
UN	UNSPSC			
	UNSPSC 21.0	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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