

1891496

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Printed circuit board terminal, nominal current: 16 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ZFKDS(A) 1,5, 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: 2, 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
- · Angled connection enables multi-row arrangement on the PCB
- The latching on the side enables various numbers of positions to be combined
- Two solder pins reduce the mechanical strain on the soldering spots

#### Commercial data

Item number	1891496	
Packing unit	50 pc	
Minimum order quantity	50 pc	
Sales key	AA12	
Product key	AALMBA	
GTIN	4017918173821	
Weight per piece (including packing)	5.136 g	
Weight per piece (excluding packing)	4.75 g	
Customs tariff number	85369010	
Country of origin	IN	



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## Technical data

### Product properties

Product type	Printed circuit board terminal	
Product family	ZFKDS(A) 1,5	
Product line	COMBICON Terminals S	
Type PC terminal block can be aligned		
Number of positions	4	
Pitch	5.08 mm	
Number of connections	4	
Number of rows	1	
Number of potentials	4	
Pin layout	Linear pinning	
Solder pins per potential	2	

#### Electrical properties

#### Properties

Nominal current I <sub>N</sub>	16 A		
Nominal voltage U <sub>N</sub>	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

Туре	PC terminal block can be aligned	
Nominal cross section	1.5 mm²	
Conductor connection		

Conductor Connection				
Connection method	Spring-cage connection			
Conductor cross-section rigid	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>			
Conductor cross-section flexible	0.2 mm² 1.5 mm²			
Conductor cross-section AWG	24 14			
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 1.5 mm²			
Stripping length	7.5 mm			

### Mounting



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Pin layout

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aterial data - contact			
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201		
Contact material	Cu alloy		
Surface characteristics	hot-dip tin-plated Tin (10 - 16 μm Sn)		
Metal surface terminal point (top layer)			
Metal surface soldering area (top layer)	Tin (10 - 16 μm Sn)		
aterial 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	850 775		
Glow wire ignition temperature GWIT according to EN 60695-2-13			
Temperature for the ball pressure test according to EN 60695-10-2	125 °C		
aterial data – actuating element			
Color (Actuating element)	green (6021)		
ensions			
Dimensional drawing	h p		
Pitch	5.08 mm		
Pitch Width [w]	5.08 mm 22.86 mm		
Width [w]	22.86 mm		

3.5 mm

0.7 x 1 mm

5.08 mm

1.3 mm

Linear pinning

### Electrical tests

PCB design

Pin spacing
Hole diameter

Solder pin length [P]

Pin dimensions



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#### Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

#### 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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	CSA Approval ID: 13631				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
		300 V	10 A	28 - 12	-
D					
		300 V	10 A	28 - 12	-

c <b>911</b> us	cULus Recognized Approval ID: E60425-19941111				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
		250 V	10 A	26 - 12	-
D					
		300 V	10 A	26 - 12	-

N E     D	KEMA-KEUR Approval ID: 2160724.01			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
Only flexible conductors	250 V	-	-	0.2 - 1.5
Only rigid conductors	250 V	-	-	0.2 - 2.5



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27460101		
	ECLASS-15.0	27460101		
ETIM				
CTIVI				
	ETIM 9.0	EC002643		
UNSPSC				
	UNSPSC 21.0	39121400		



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## Environmental product compliance

#### EU RoHS

26 None				
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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