

1709899

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Printed circuit board terminal, nominal current: 16 A, rated voltage (III/2): 320 V, nominal cross section: 1.5 mm², number of potentials: 7, number of rows: 1, number of positions per row: 7, product range: ZFKDS(A) 1,5-W, pitch: 7.62 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
- · Can be operated without tools by means of color-coded actuating lever
- · 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	1709899
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	AALMBG
Product key	AALMBG
GTIN	4055626126227
Weight per piece (including packing)	11.27 g
Weight per piece (excluding packing)	10.364 g
Customs tariff number	85369010
Country of origin	GR



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# Technical data

### Product properties

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 1,5-W
Product line	COMBICON Terminals S
Number of positions	7
Pitch	7.62 mm
Number of connections	7
Number of rows	1
Number of potentials	7
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>	320 V
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 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

Nominal cross section	1.5 mm²	
Conductor connection		
Connection method	Spring-cage connection	
Conductor cross section rigid	0.2 mm² 2.5 mm²	
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	

# Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

## Material 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	hot-dip 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

Colc	or (Actuating element)	green (6021)

## Dimensions

Dimensional drawing	h p
Pitch	7.62 mm
Width [w]	38.1 mm
Height [h]	17.7 mm
Length [I]	16.9 mm
Installed height	14.2 mm
Solder pin length [P]	3.5 mm
PCB design	
Hole diameter	1.3 mm

### Electrical tests

### 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)	320 V



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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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KEMA-KEUR Approval ID: 2160724	KEMA-KEUR Approval ID: 2160724.01			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Only flexible conductors	250 V	-	-	0.2 - 1.5
Only rigid conductors	250 V	-	-	0.2 - 2.5

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



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# Classifications

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		A.7.7

	ECLASS-13.0	27460101
ETIM		
	ETIM 9.0	EC002643
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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