#### 1705595

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PCB terminal block, nominal current: 8 A, rated voltage (III/2): 320 V, nominal cross section: 1.5 mm<sup>2</sup>, number of potentials: 7, number of rows: 1, number of positions per row: 7, product range: MKDSD 1,5, pitch: 3.81 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]: 2.7 mm, number of solder pins per potential: 2, 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
- · Two solder pins reduce the mechanical strain on the soldering spots
- · The latching on the side enables various numbers of positions to be combined

## Commercial data

Item number	1705595
Packing unit	50 рс
Minimum order quantity	50 рс
Sales key	AA12
Product key	AALFGL
Catalog page	Page 23 (CC-2005)
GTIN	4017918144524
Weight per piece (including packing)	5.68 g
Weight per piece (excluding packing)	5.57 g
Customs tariff number	85369010
Country of origin	BG



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# Technical data

#### Product properties

Туре	PC termination block
Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	MKDSD 1,5
Number of positions	7
Pitch	3.81 mm
Number of connections	7
Number of rows	1
Number of potentials	7
Pin layout	Linear pinning
Solder pins per potential	2

### **Electrical properties**

Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	320 V
Degree of pollution	3
Rated voltage (III/3)	200 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)	500 V
Rated surge voltage (II/2)	4 kV

### Connection data

PC termination block
1.5 mm <sup>2</sup>
Screw connection with tension sleeve
0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
26 16
0.25 mm² 1.5 mm²
0.25 mm² 0.5 mm²
0.14 mm² 0.5 mm²
0.14 mm² 0.5 mm²
0.25 mm² 0.34 mm²
0.5 mm² 0.5 mm²

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ferrule with plastic sleeve	
Stripping length	7 mm
Tightening torque	0.22 Nm 0.25 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	hot-dip tin-plated
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	VO
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 P
Pitch	3.81 mm
Width [w]	27.76 mm
Height [h]	15.3 mm
Length [I]	9.3 mm
Installed height	12.6 mm
Solder pin length [P]	2.7 mm
Pin dimensions	0.5 x 0.8 mm



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PCB design

Hole diameter

1.1 mm

#### Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	200 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	500 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	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

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# Classifications

#### ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
ECLASS 13.0 27/60/01	ECLASS-12.0	27460101
27400101	ECLASS-13.0	27460101

### ETIM

	ETIM 9.0	EC002643
UN	ISPSC	
	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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