

https://www.phoenixcontact.com/in/products/1780112



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PCB terminal block, nominal current: 6.3 A, rated voltage (III/2): 320 V, nominal cross section: 2. 5 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: KDS 3-SI, pitch: 5.08 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]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions! The current is determined by the fuse used.

### Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Quick and convenient testing using integrated test option
- 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	1780112
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	AAM
Product Key	AAMFFD
GTIN	4017918040734
Weight per Piece (including packing)	12.155 g
Weight per Piece (excluding packing)	11.877 g
Customs tariff number	85369010
Country of origin	PL



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## **Technical Data**

### Product properties

Туре	PCB terminal block can be aligned in rows + fuse terminal block
Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	KDS 3-SI
Number of positions	1
Pitch	5.08 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

### Electrical properties

Nominal current I <sub>N</sub>	6.3 A
Nominal voltage U <sub>N</sub>	320 V
Degree of pollution	3
Rated voltage (III/3)	320 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

Туре	PCB terminal block can be aligned in rows + fuse terminal block
Nominal cross section	2.5 mm²

#### Conductor connection

Connection method	Screw connection with tension sleeve	
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	
2 conductors with same cross section, solid	0.2 mm² 1 mm²	
2 conductors with same cross section, flexible	0.2 mm² 1 mm²	
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.75 mm²	
2 conductors with the same cross section, flexible, with TWIN	0.5 mm² 1 mm²	



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ferrule with plastic sleeve	
Stripping length	8 mm
Tightening torque	0.5 Nm 0.6 Nm
ounting	
Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)
Drive form screw head	Slotted (L)
Processing notes	
Process	Wave soldering
laterial specifications  Material data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 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	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V2
Material data – actuating element	
Color ()	()
imensions	
Dimensional drawing	n p
Pitch	5.08 mm

5.08 mm

40.5 mm

27 mm

37 mm

3.5 mm

### Electrical tests

Width [w]

Height [h]

Length [I]

Installed height

Solder pin length [P]





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#### Air clearances and creepage distances |

Insulating material group	T .
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	320 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

•	CSA Approval ID: 13631				
		Nominal Voltage $\mathbf{U}_{\mathrm{N}}$	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		300 V	10 A	24 - 12	-

<b>7/1</b>	UL Recognized Approval ID: FILE E 60425	5			
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		250 V	15 A	28 - 12	-
		300 V	10 A	28 - 12	-

EAC	EAC
LIIL	Approval ID: B.01687





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## Classifications

### **ECLASS**

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	ECLASS-11.0	27460101	
	ECLASS-12.0	27460101	
	ECLASS-13.0	27460101	
ETIM			
	ETIM 8.0	EC002643	
UNSPSC			
	UNSPSC 21.0	39121400	



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# **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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#### Accessories

RZ 2,54 - Pitch spacer

1780044

https://www.phoenixcontact.com/in/products/1780044



Pitch spacer, raises the pitch by 2.54 mm, interlocks with terminal block of the same shape, color: green

### RPS - Reducing plug

0201647

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Reducing plug, number of positions: 1, fuse type: , mounting type: , , , color: gray



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#### SZG 0,6X3,5 VDE - Screwdriver

1205121

https://www.phoenixcontact.com/in/products/1205121



Screwdriver, slot-headed, graded, for test socket screws, size:  $0.6 \times 3.5 \times 100$  mm, 2-component grip, with non-slip grip

### MPS-MT - Test plugs

0201744

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Test plugs, with solder connection up to 1  $\text{mm}^2$  conductor cross section, number of positions: 1, fuse type: , mounting type: , , , , color: gray



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#### BNB-ZB 5,LGS:FORTL.ZAHLEN - Marker pin Zack strip

1400201

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Marker pin Zack strip, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: plug in, for terminal block width: 5 mm, lettering field size: 4 x 4 mm, Number of individual labels: 10

## EB 8- KDS 3-SI - Insertion bridge

1780125

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Insertion bridge, number of positions: 8, color: gray

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