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PCB terminal block, nominal current: 24 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 9, connection method: Screw connection with tension sleeve, mounting: Wave soldering, color: black. The article can be aligned to create different nos. of positions!

The figure shows a 2-pos. version of the product

#### Your advantages

- Allows connection of two conductors
- Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve
- The latching on the side enables various numbers of positions to be combined



#### **Key Commercial Data**

Packing unit	50 pc	
GTIN	4 055626 168944	
GTIN	4055626168944	

#### Technical data

#### Item properties

Brief article description	PCB terminal block
Range of articles	MKDS 3
Pitch	5 mm
Number of positions	9
Connection method	Screw connection with tension sleeve
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1

#### Electrical parameters

Rated current	24 A



### Technical data

#### Electrical parameters

Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

### Connection capacity

Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG / kcmil	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 2.5 mm²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.25 mm² 0.75 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	8 mm
Torque	0.5 Nm 0.6 Nm

#### 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	Tin-plated	
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)	
Metal surface soldering area (top layer)	Tin (4 - 8 µm Sn)	

### Material data - housing

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

#### Dimensions for the product

Caption	Schematic representation – for additional information, see product range drawing in the Download Center	
Pitch	5 mm	
Solder pin [P]	5 mm	
Pin spacing	5 mm	
Pin dimensions	0.9 x 0.9 mm	

#### Dimensions for PCB design

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### Technical data

Insulating material group

Rated insulation voltage (III/3)

Rated insulation voltage (III/2)

Rated insulation voltage (II/2)

Rated surge voltage (III/3)

Rated surge voltage (III/2)

Dimer	nsions	for	PCB	design
	1010110	101	. 00	acoign

5 mm			
packed in cardboard			
50			
Pcs.			
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).			
-40 °C 70 °C			
-5 °C 100 °C			
-40 °C			
IEC 60998-2-2:2002-12			
·			
IEC 60998-2-1:2002-12			
Test passed			
0.2 mm² / solid / > 10 N			
0.2 mm² / flexible / > 10 N			
4 mm² / solid / > 60 N			
2.5 mm² / flexible / > 50 N			
IEC 60998-2-1 (in parts)			
24 A			
400 V			
4 kV			
•			

250 V

400 V

630 V

4 kV

4 kV



### Technical data

Air	clearances	and	creepage	distances
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Rated surge voltage (II/2)	4 kV

#### Current carrying capacity / derating curves

Specification	IEC 60998-2-1 (in parts)
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#### Vibration test

Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water	Test passed IEC 60998-1:2002-12 168 h/100°C 48 h/30 °C/92 %	
Test result	Test passed	
Test specification	IEC 60998-1:2002-12	
Dry heat	168 h/100°C	
Humid heat	48 h/30 °C/92 %	

### Resistance to ageing, humidity and penetration of solids

Test result	Test passed
Test specification	IEC 60998-1:2002-12
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

#### Standards and Regulations

Flammability rating according to UL 94	V0
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#### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1	
China RoHS	Environmentally Friendly Use Period = 50	
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"	

### **Approvals**

Approvals	Αp	prova	ls
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Approvals

EAC

Ex Approvals

#### Approval details

EAC [][



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