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PCB terminal block, nominal current: 24 A, pitch: 5 mm, number of positions: 12, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: cream. The article can be aligned to create different nos. of positions!

The figure shows a 4-position version

Your advantages

- Allows connection of two conductors
- The latching on the side enables various numbers of positions to be combined



Key Commercial Data

Packing unit	50 pc
GTIN	4 055626 352695
GTIN	4055626352695

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDS 3
Pitch	5 mm
Number of positions	12
Connection method	Screw connection with tension sleeve
Screw thread	M3
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1
Number of connections	12



Technical data

Item properties

Number of potentials	12
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Electrical parameters

Rated current	24 A
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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
Length [1]	11.2 mm
Width [w]	60 mm
Height [h]	23 mm
Pitch	5 mm
Height (without solder pin)	18 mm



Technical data

Dimensions for the product

Solder pin [P]	5 mm
Pin spacing	5 mm
Pin dimensions	0.9 x 0.9 mm
Dimension a	55 mm

Dimensions for PCB design

Hole diameter	1.3 mm
Pin spacing	5 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

General product information

Type of note	Note on application
Note	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).

Ambient conditions

Ambient temperature (storage/transport)	-40 °C 70 °C	
Ambient temperature (assembly)	-5 °C 100 °C	
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)	

Termination and connection method

Connection test	IEC 60998-2-2:2002-12
Test for conductor damage and slackening	IEC 60998-2-1:2002-12
	Test passed

Pull-out test

Pull-out test	IEC 60998-2-1:2002-12	
	Test passed	
Conductor cross section / conductor type / tensile force	0.2 mm² / solid / > 10 N	
	0.2 mm² / flexible / > 10 N	
	4 mm² / solid / > 60 N	
	2.5 mm² / flexible / > 50 N	

Electrical tests

Rated current	24 A
Conductor cross section	2.5 mm²

Air clearances and creepage distances



Technical data

Air clearances and creepage distances

Rated insulation voltage (III/3)	250 V
Minimum clearance - inhomogeneous field (III/3)	3 mm
Minimum clearance - inhomogeneous field (III/2)	3 mm
Minimum clearance - inhomogeneous field (II/2)	3 mm
Minimum creepage distance value (III/3)	3.2 mm
Minimum creepage distance value (III/2)	3 mm
Minimum creepage distance value (II/2)	3.2 mm
Note on connection cross section	With connected conductor 4 mm² (solid).

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

E	
Flammability rating according to UL 94	V0

Environmental Product Compliance

	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

Approvals

DNV GL / CSA / CCA / SEV / EAC / cULus Recognized

Ex Approvals

Approval details



Approvals

DNV GL	TV 30	https://approvalfinder.dnvgl.com/	TAE00001EV
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CSA	(P)	http://www.csagroup.org/services-indu	stries/product-listing/ 13631
		В	D
Nominal voltage UN		300 V	300 V
Nominal current IN		10 A	10 A
mm²/AWG/kcmil		28-12	28-12

CCA	IK-3249
Nominal voltage UN	250 V
mm²/AWG/kcmil	4

SEV	SEV	https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html		IK-4199
Nominal voltage UN			250 V	
Nominal current IN			28 A	
mm²/AWG/kcmil			4	

EAC	ERC	B.01742
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cULus Recognized	http://database.ul.com/cgi-bin/XYV/template/L	ISEXT/1FRAME/index.htm
	В	D
Nominal voltage UN	300 V	300 V
Nominal current IN	15 A	10 A
mm²/AWG/kcmil	30-12	30-12



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