

PCB terminal block - MKDS 3/12 CRWH - 1714357

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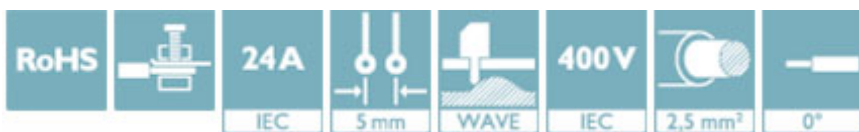


PCB terminal block, nominal current: 24 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 12, connection method: Screw connection with tension sleeve, mounting: Wave soldering, color: cream. The article can be aligned to create different nos. of positions!


The figure shows a 4-position version

Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- 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 STK
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

Electrical parameters

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Technical data

Electrical parameters

Rated current	24 A
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

Connection capacity

Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG / kcmil	24 ... 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.25 mm ² ... 0.75 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Stripping length	8 mm

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

Housing color	cream
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Dimensions for the product

Caption	Schematic representation – for additional information, see product range drawing in the Download Center
Length [l]	11.2 mm
Width [w]	60 mm
Height [h]	23 mm
Pitch	5 mm
Height (without solder pin)	18 mm
Solder pin [P]	5 mm
Pin dimensions	0.9 x 0.9 mm
Dimension a	55 mm
Pin spacing	5 mm

Dimensions for PCB design

Hole diameter	1.3 mm
Pin spacing	5 mm

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Technical data

Packaging information

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

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C

Electrical tests

Rated current	24 A
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

Air clearances and creepage distances

Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated insulation voltage (III/2)	400 V
Rated insulation voltage (II/2)	630 V
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
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 mm ² (solid).

Standards and Regulations

Flammability rating according to UL 94	V0
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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Approvals

Approvals

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Approvals


Approvals

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


Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
		B	D
mm ² /AWG/kcmil		28-12	28-12
Nominal current IN		10 A	10 A
Nominal voltage UN		300 V	300 V

SEV		https://www.electrosuisse.ch/en/meta/shop/product-certificates.html	IK-4199
mm ² /AWG/kcmil		4	
Nominal current IN		28 A	
Nominal voltage UN		250 V	

EAC			B.01742
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19770427
		B	D
mm ² /AWG/kcmil		30-12	30-12
Nominal current IN		15 A	10 A
Nominal voltage UN		300 V	300 V

DNV GL	http://exchange.dnv.com/tari/	TAE00001EV
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CCA			IK-3249
mm ² /AWG/kcmil		4	
Nominal voltage UN		250 V	

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