MKDSFW 1,5/ 4-3,5 BDQ:4-1 - 1703012

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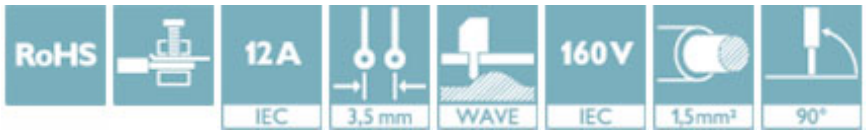
The figure shows a 10-position version of the product

PCB terminal block, nominal current: 12 A, nom. voltage: 160 V, pitch: 3.5 mm, number of positions: 4, connection method: Screw connection, mounting: Soldering, conductor/PCB connection direction: 90 °, color: green

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Stand-offs enable the PCB to be cleaned or sealed



Key Commercial Data

Packing unit	50 pc
GTIN	4 046356 873130
GTIN	4046356873130

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDSFW 1,5
Pitch	3.5 mm
Number of positions	4
Connection method	Screw connection with tension sleeve
Screw thread	M2
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1

Electrical parameters

Rated current	12 A

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Electrical parameters

Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

Connection capacity

Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section AWG / kcmil	26 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm²
2 conductors with same cross section, solid	0.14 mm² ... 0.75 mm²
2 conductors with same cross section, flexible	0.14 mm² ... 0.75 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.25 mm² ... 0.5 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm² ... 1 mm²
Stripping length	6 mm
Torque	0.22 Nm ... 0.25 Nm

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 terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 µm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

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

Length [l]	11.3 mm
Pitch	3.5 mm
Height (without solder pin)	11 mm
Solder pin [P]	5 mm
Pin dimensions	0.5 x 0.9 mm
Dimension a	10.5 mm

Dimensions for PCB design

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Dimensions for PCB design

Hole diameter	1.3 mm

Packaging information

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).

Electrical tests

Rated current	12 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

Air clearances and creepage distances

Insulating material group	I
Voltage	160 V
Rated insulation voltage (III/3)	160 V
Rated insulation voltage (III/2)	160 V
Rated insulation voltage (II/2)	320 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV

Standards and Regulations

Connection in acc. with standard	EN-VDE

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

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EAC

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Approvals

Ex Approvals

Approval details

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