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PCB terminal block, nominal current: 24 A, pitch: 5 mm, number of positions: 2, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green. The article can be aligned to create different nos. of positions!

Your advantages

- ✓ 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 pc
Minimum order quantity	50 pc
GTIN	4 017918 023768
GTIN	4017918023768
Weight per Piece (excluding packing)	3.840 g
Custom tariff number	85369010
Country of origin	Germany

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDSF 3
Pitch	5 mm
Number of positions	2
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)
Screw thread	M3



Technical data

Item properties

Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1
Number of connections	2
Number of potentials	2

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 (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 [1]	18 mm
Width [w]	10 mm
Height [h]	15.3 mm



Technical data

Dimensions for the product

Pitch	5 mm
Height (without solder pin)	11.2 mm
Solder pin [P]	4.1 mm
Pin dimensions	0.9 x 0.9 mm
Dimension a	5 mm

Dimensions for PCB design

Hole diameter 1.3 mm	
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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).

Processing notes

Process	Wave soldering
Specification	Following IEC 61760-1:2006-04
	Following IEC 60068-2-54:2006-04

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

Test for conductor damage and slackening	IEC 60999-1:1990-05
	Test passed

Pull-out test

Pull-out test	IEC 60999-1:1990-05
	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



Technical data

Electrical tests

Rated current	24 A
Conductor cross section	2.5 mm ²
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

Air clearances and creepage distances

Specification	IEC 60664-1:2007-04
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)	2 mm
Minimum creepage distance value (II/2)	3.2 mm

Vibration test

Specification	IEC 60068-2-6:1982 + AMD 2:1985	
Result	Test passed	
Frequency	10 - 150 - 10 Hz	
Sweep speed	1 octave/min	
Amplitude	0.35 mm (10 - 60.1 Hz)	
Acceleration	5 g (60.1 - 150 Hz)	
Test duration per axis	2.5 h	

Standards and Regulations

Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

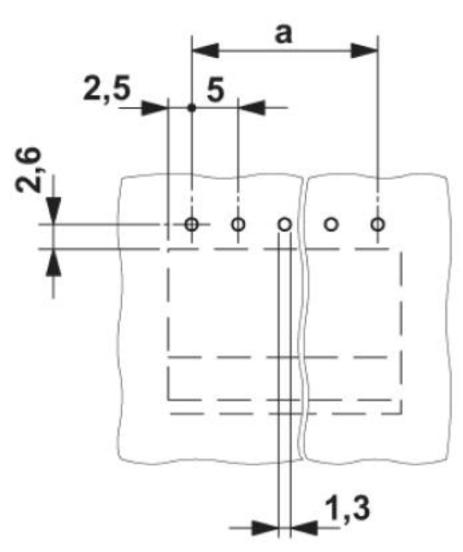
Environmental Product Compliance

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

Drawings

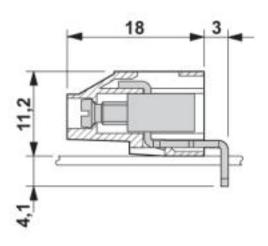


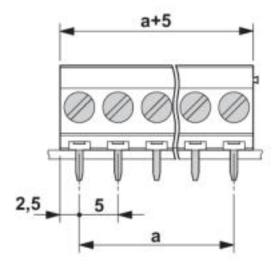






Dimensional drawing





Classifications

eCl@ss

eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27261100
eCl@ss 6.0	27261100
eCl@ss 7.0	27440401
eCl@ss 8.0	27440401
eCl@ss 9.0	27440401

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002643
ETIM 6.0	EC002643
ETIM 7.0	EC002643

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

Approvals

Approvals



Approvals

Approvals

CSA / CCA / SEV / EAC / cULus Recognized

Ex Approvals

Approval details

CSA (1)	http://www.csagroup.org/services-indus	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			32 A	
mm²/AWG/kcmil			4	

EAC [F]

cULus Recognized c Sus	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-1987033	
	В	D
Nominal voltage UN	250 V	300 V
Nominal current IN	15 A	10 A
mm²/AWG/kcmil	30-12	30-12



Accessories

Accessories

Bridge

Insertion bridge - EBP 2- 5 - 1733169



Labeled terminal marker

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



Marker card, Card, white, labeled, Horizontal: consecutive numbers $1 \dots 10$, $11 \dots 20$, etc. up to $91 \dots (99)100$, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: $5 \times 3.8 \text{ mm}$

Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

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