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Printed circuit terminal block, nominal current: 32 A, rated voltage: 500 V, pitch: 6.35 mm, no. of positions: 3, mounting: Soldering, type of connection: Screw connection, connection direction from the conductor to the PCB: 0°

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

Why buy this product

- ☑ Well-known connection principle allows worldwide use
- ☑ Low temperature rise, thanks to maximum contact force
- Mallows connection of two conductors
- $\ensuremath{\,^{\scriptsize \ensuremath{\mathbb{M}}}}$ The latching on the side enables various numbers of positions to be combined



Key Commercial Data

Packing unit	50 STK
GTIN	4 017918 257866
GTIN	4017918257866

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDS 5
Pitch	6.35 mm
Number of positions	3
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted
Screw thread	M3
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1

Electrical parameters



Technical data

Electrical parameters

Rated current	32 A
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV

Connection capacity

Conductor cross section solid	0.2 mm ² 6 mm ²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section AWG / kcmil	24 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 4 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 4 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 mm² 0.75 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm² 2.5 mm²

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	РА
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]	12.5 mm
Width [w]	19.05 mm
Height [h]	26.6 mm
Pitch	6.35 mm
Height (without solder pin)	21.5 mm
Solder pin [P]	5.1 mm
Pin dimensions	0.9 x 0.9 mm



Technical data

Dimensions for the product

12.7 mm		
Dimensions for PCB design		
1.3 mm		
Packaging information		
packed in cardboard		
50		
Pcs.		
Ambient conditions		
-40 °C 70 °C		
-5 °C 100 °C		
-40 °C		

Termination and connection method

Pull-out test

Pull-out test	IEC 60998-2-1:1990-04
	Test passed
Conductor cross section / conductor type / tensile force	0.2 mm² solid 10 N > 0.2 mm² / solid / > 10 N

Mechanical tests according to standard

Test specification	IEC 60998-2-1 (in parts)
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Electrical tests

Rated current	32 A
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV

Air clearances and creepage distances

Insulating material group	
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Voltage	500 V
Rated insulation voltage (III/3)	500 V
Rated insulation voltage (III/2)	630 V
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (II/2)	6 kV
Minimum clearance - inhomogeneous field (III/3)	5.5 mm
Minimum clearance - inhomogeneous field (III/2)	5.5 mm
Minimum clearance - inhomogeneous field (II/2)	5.5 mm
Minimum creepage distance value (III/3)	6.3 mm
Minimum creepage distance value (III/2)	5.5 mm



Technical data

Air clearances and creepage distances

Minimum creepage distance value (II/2)	5.5 mm	
Note on connection cross section	With connected conductor 6 mm ² (solid).	

Current carrying capacity / derating curves

Specification	IEC 60998-2-1 (in parts)

Vibration test

Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water	Test passed IEC 60998-2-1:1990-04 168 h/100°C 48 h/25 °C/92%	
Test result	Test passed	
Test specification	IEC 60998-2-1:1990-04	
Dry heat	168 h/100°C	
Humid heat	48 h/25 °C/92%	

Resistance to ageing, humidity and penetration of solids

Test result	Test passed
Test specification	IEC 60998-2-1:1990-04
Dry heat	168 h/100°C
Humid heat	48 h/25 °C/92%

Standards and Regulations

Connection in acc. with standard	EN-VDE
	CSA

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

Approvals

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

Ex Approvals

Approval details



Approvals

CSA SP	http://www.csagroup.org/services-indu	stries/product-listing/ 13631
	D	В
Nominal voltage UN	300 V	300 V
Nominal current IN	10 A	10 A
mm²/AWG/kcmil	28-10	28-10

SEV	https://www.electrosuisse.ch/en/meta/shop/product-certificates.html IK-4199		IK-4199
Nominal voltage UN		450 V	
Nominal current IN		32 A	
mm²/AWG/kcmil		4	

CCA	IK-3249
Nominal voltage UN	450 V
mm²/AWG/kcmil	4

EAC	EAC	B.01742
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cULus Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-19770427	
	D	В
Nominal voltage UN	300 V	300 V
Nominal current IN	10 A	30 A
mm²/AWG/kcmil	30-10	30-10
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DNV GL	http://exchange.dnv.com/tari/	TAE00001EV

RS



http://www.rs-head.spb.ru/en/index.php

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