

PCB terminal block - MKDS 1/ 8-3,81 SMD BK - 1727175

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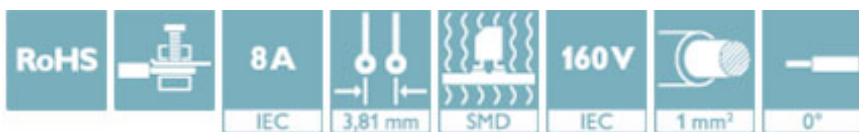
PCB terminal block, nominal current: 8 A, nom. voltage: 160 V, pitch: 3.81 mm, number of positions: 8, connection method: Screw connection with tension sleeve, mounting: SMD soldering, conductor/PCB connection direction: 0 °, color: black



The figure shows a 10-position version of the product

Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Extremely small design for the respective conductor cross section
- ✓ Designed for integration into the SMT soldering process



Key Commercial Data

Packing unit	14 pc
GTIN	
GTIN	4017918025595

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	MKDS 1/..-SMD
Pitch	3.81 mm
Number of positions	8
Connection method	Screw connection with tension sleeve
Screw thread	M2
Mounting type	SMD soldering
Pin layout	Linear pad geometry
Number of levels	1

Electrical parameters

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Technical data

Electrical parameters

Rated current	8 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

Connection capacity

Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1 mm ²
Conductor cross section AWG / kcmil	26 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 0.5 mm ²
2 conductors with same cross section, solid	0.14 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible	0.14 mm ² ... 0.2 mm ²
Stripping length	5 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
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	IIIa
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 [l]	7.3 mm
Width [w]	30.47 mm
Height [h]	9.2 mm
Pitch	3.81 mm
Height (without solder pin)	9.2 mm
Dimension a	26.67 mm

Packaging information

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Technical data

Packaging information

Type of packaging	Tube magazine
Pieces per package	14
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	8 A
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

Air clearances and creepage distances

Insulating material group	IIIa
Voltage	160 V
Rated insulation voltage (III/3)	160 V
Rated insulation voltage (III/2)	160 V
Rated insulation voltage (II/2)	250 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
	CSA
Flammability rating according to UL 94	V0

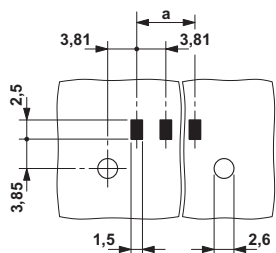
Environmental Product Compliance

REACH SVHC	DOTE 15571-58-1
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

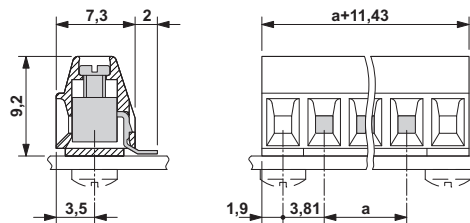
Drawings

PCB terminal block - MKDS 1/ 8-3,81 SMD BK - 1727175

Drilling diagram



Dimensional drawing



Approvals

Approvals

Approvals

CSA / IECCEB CB Scheme / SEV / EAC / cULus Recognized

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	D	B	
Nominal voltage UN	300 V	150 V	
Nominal current IN	10 A	10 A	
mm ² /AWG/kcmil	28-16	28-16	

IECEE CB Scheme		http://www.iecee.org/	CH-8225
Nominal voltage UN	125 V		
Nominal current IN	12 A		
mm ² /AWG/kcmil	1.5		


SEV		https://www.electrosuisse.ch/de/meta/shop/produktzertifikate.html	IK-3542-M1
Nominal voltage UN	125 V		

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Approvals

Nominal current IN	12 A
mm ² /AWG/kcmil	1.5

EAC		B.01742
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-19770427
	D	B	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm ² /AWG/kcmil	30-16	30-16	

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