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PCB terminal block, nominal current: 17.5 A, nom. voltage: 630 V, pitch: 7.5 mm, number of positions: 2, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green. The article can be aligned to create different nos. of positions!

Why buy this product

- ✓ Well-known connection principle allows worldwide use
- Allows connection of two conductors
- Larger pitch for increased voltage requirements
- The latching on the side enables various numbers of positions to be combined



Key Commercial Data

Packing unit	250 STK
GTIN	4 017918 024253
GTIN	4017918024253
Weight per Piece (excluding packing)	3.090 g
Custom tariff number	85369010
Country of origin	Germany

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	GMKDS 1,5
Pitch	7.5 mm
Number of positions	2
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)
Screw thread	M3
Mounting type	Wave soldering



Technical data

Item properties

Pin layout	Linear pinning
Number of levels	1

Electrical parameters

Rated current	17.5 A
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 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 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1 mm²
2 conductors with same cross section, solid	0.14 mm² 1 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

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	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions for the product

Caption	Schematic representation – for additional information, see product range drawing in the Download Center
Length [1]	9.8 mm
Width [w]	15 mm
Height [h]	17.3 mm
Pitch	7.5 mm
Height (without solder pin)	13.8 mm
Solder pin [P]	3.5 mm



Technical data

Dimensions for the product

Pin dimensions	0.9 x 0.9 mm
Dimension a	7.5 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	250
Denomination packing units	Pcs.

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

Termination and connection method

Pull-out test

Pull-out test	Test passed IEC 60998-2-1:1990-04
	IEC 60998-2-1:1990-04
	Test passed
Conductor cross section / conductor type / tensile force	0.14 mm² solid 10 N > 0.14 mm² / solid / > 10 N

Mechanical tests according to standard

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

Electrical tests

Rated current	17.5 A
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV

Air clearances and creepage distances

Insulating material group	I
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



Technical data

Air clearances and creepage distances

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
Minimum creepage distance value (II/2)	5.5 mm
Note on connection cross section	With connected conductor 1.5 mm² (solid).

Current carrying capacity / derating curves

Specification	IEC 60998-2-1 (in parts)
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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
Flammability rating according to UL 94	V0

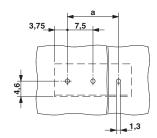
Environmental Product Compliance

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"

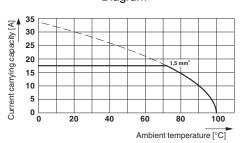
Drawings



Drilling diagram



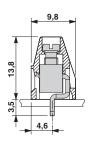
Diagram

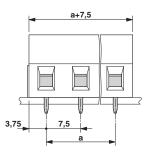


Type: GMKDS 1,5/2 and GMKDS 1,5/3 Test following DIN EN 60512-5-2:2003-01

Reduction factor = 1 No. of positions: 5

Dimensional drawing





Classifications

eCl@ss

eCl@ss 4.0	27141109
eCl@ss 4.1	27141109
eCl@ss 5.0	27141190
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

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432



Classifications

UNSPSC

UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

CSA	(1)	http://www.csagroup.org/services-industries/product-listing/ 13631	
		D	В
Nominal voltage UN		300 V	300 V
Nominal current IN		10 A	10 A
mm²/AWG/kcmil		28-14	28-14

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
	D	В	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm²/AWG/kcmil	30-14	30-14	

SEV	SEV	https://www.electrosuisse.ch/en/meta/shop/product-certificates.html		IK-4199
Nominal voltage UN			500 V	
Nominal current IN			17.5 A	
mm²/AWG/kcmil			1.5	



Approvals

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
	D	В	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm²/AWG/kcmil	30-14	30-14	

CCA	IK-3249
Nominal voltage UN	500 V
mm²/AWG/kcmil	1.5

EAC	EAC	B.01742

DNV GL	http://exchange.dnv.com/tari/	TAE00001EV

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Accessories

Accessories

Labeled terminal marker

Marker card - SK 7,5/5:FORTL.ZAHLEN - 0804468



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, mounting type: adhesive, for terminal block width: 7.5 mm, lettering field size: 7.5 x 5 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm



Accessories

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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