

1985959

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PCB terminal block, nominal current: 16 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKDSN 2,5/..-HT, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: THR soldering / wave soldering, conductor/PCB connection direction: 0°, color: black, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. This article can be soldered in the reflow furnace together with SMD components.

## 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
- 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

### Commercial data

Item number	1985959
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AAM
Product key	AAMGAB
Catalog page	Page 77 (C-1-2013)
GTIN	4017918929350
Weight per piece (including packing)	6.069 g
Weight per piece (excluding packing)	5.695 g
Customs tariff number	85369010
Country of origin	DE



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# Technical data

# Product properties

Product type	Printed circuit board terminal
Product family	MKDSN 2,5/HT
Product line	COMBICON Terminals M
Туре	PC termination block
Number of positions	3
Pitch	5.08 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	1

#### Data management status

Article revision	00
Article revision	00

# Electrical properties

Nominal current I <sub>N</sub>	16 A
Nominal voltage U <sub>N</sub>	320 V
Rated voltage (III/3)	200 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	4 kV

## Connection data

#### Connection technology

Туре	PC termination block
Nominal cross section	2.5 mm <sup>2</sup>

#### Conductor connection

Conductor Connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14
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 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule	0.25 mm² 0.75 mm²



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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Stripping length	6.5 mm
Drive form screw head	Slotted (L)
Tightening torque	0.5 Nm 0.6 Nm

## Mounting

Mounting type	THR soldering / wave soldering
Pin layout	Linear pinning

## Material specifications

### 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	hot-dip 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

Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	Illa
CTI according to IEC 60112	250 - 399
Flammability rating according to UL 94	V0

### Notes

e conductor connection, always adhere to a defined ing torque. Particularly in the case of PCB terminal blocks or three positions, the individual solder pin for each point cannot compensate for this. That is why the I blocks must be supported during conductor connection iith one hand, support on the housing).
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### **Dimensions**

Dimensional drawing	h h
Pitch	5.08 mm
Width [w]	15.24 mm
Height [h]	15 mm
Length [I]	9.5 mm
Installed height	15 mm



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Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 0.9 mm
PCB design	
PCB design	
Pin spacing	5.08 mm

### Electrical tests

#### Air clearances and creepage distances |

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Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	Illa
Comparative tracking index (IEC 60112)	CTI 250 - 399
Rated insulation voltage (III/3)	200 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3.2 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

## Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Dry bag

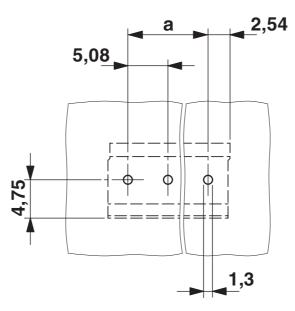


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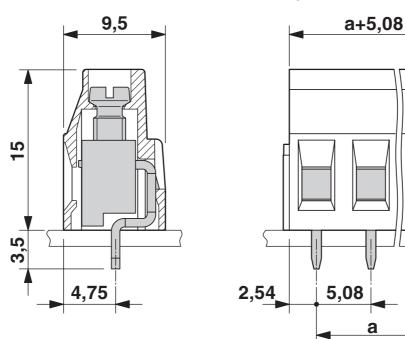
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# Drawings

Drilling plan/solder pad geometry



## Dimensional drawing





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# **Approvals**

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CULus Recognized Approval ID: E60425-19770427				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	20 A	30 - 12	-
Use group D				
	150 V	15 A	30 - 12	-

<b>√DE</b>	VDE Gutachten m Approval ID: 40018557	nit Fertigungsüberwachung			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	24 A	-	0.2 - 2.5

VDE Zeichengeneh Approval ID: 40055535	nmigung			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	400 V	24 A	-	0.2 - 2.5



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# Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 8.0	EC002643
UNSPSC	

39121400



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# Environmental product compliance

EU RoHS		
Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	



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#### Accessories

#### SK 5,08/3,8:FORTL.ZAHLEN - Marker card

0804293

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Marker 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: 5.08 mm, lettering field size: 5.08 x 3.8 mm

### SZS 0,6X3,5 - Screwdriver

1205053

https://www.phoenixcontact.com/in/products/1205053



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



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### EBP 3-5 - Insertion bridge

1733172

https://www.phoenixcontact.com/in/products/1733172

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



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