

1985807

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Printed circuit board terminal, nominal current: 13.5 A, rated voltage (III/2): 200 V, nominal cross section: 1.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: MKDS 1/..-HT, pitch: 3.5 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

Commercial data

Item number	1985807
Packing unit	360 pc
Minimum order quantity	360 pc
Sales key	AA12
Product key	AALGAB
GTIN	4017918929213
Weight per piece (including packing)	1.25 g
Weight per piece (excluding packing)	2.28 g
Customs tariff number	85369010
Country of origin	DE



1985807

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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MKDS 1/HT
Product line	COMBICON Terminals S
Туре	PC termination block
Number of positions	2
Pitch	3.5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	13.5 A
Nominal voltage U _N	200 V
Rated voltage (III/3)	63 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	200 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	200 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Drive form screw head

Type PC termination block		
Nominal cross section	1.5 mm²	
Conductor connection		
Connection method	Screw connection with tension sleeve	
Conductor cross section rigid	0.14 mm² 1.5 mm²	
Conductor cross section flexible	0.14 mm² 1.5 mm²	

Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²
2 conductors with same cross section, solid	0.14 mm² 0.5 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.34 mm²
Stripping length	5 mm

Slotted (L)



1985807

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Tightening torque	0.22 Nm 0.25 Nm		
unting			
Mounting type	THR soldering / wave soldering		
Pin layout	Linear pinning		
aterial 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	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			
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		
tes			
Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal block 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).		
mensions			
Dimensional drawing	h p		
Pitch	3.5 mm		
Width [w] 7.5 mm			
Height [h]	12 mm		
Length [I]	7.3 mm		
Installed height	8.5 mm		

0.5 x 0.9 mm

Pin dimensions



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PCB design

Pin spacing	3.5 mm
Hole diameter	1.1 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)	63 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	200 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	2 mm
Rated insulation voltage (II/2)	200 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2 mm

Environmental and real-life conditions

Ambient conditions

, and on a constant				
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

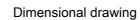
Type of packaging	packed in cardboard	
Outer packaging type	Dry bag	

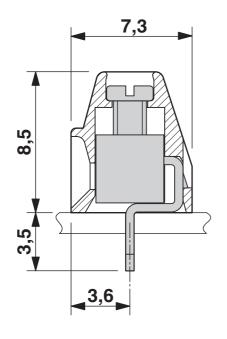


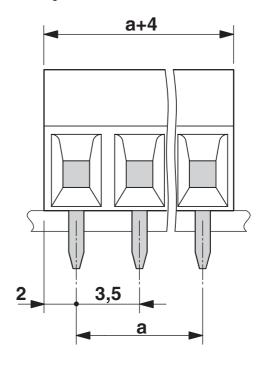
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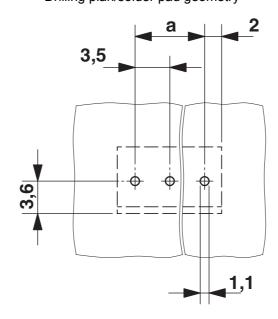
Drawings







Drilling plan/solder pad geometry





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1985807

cULus Recognized Approval ID: E60425-19770427						
	Nominal voltage $\mathbf{U}_{\mathbf{N}}$	Nominal current I _N	Cross section AWG	Cross section mm ²		
В						
Only flexible conductors	300 V	13.5 A	30 - 16	-		
Standard	300 V	10 A	30 - 16	-		
D						
Only flexible conductors	150 V	13.5 A	30 - 16	-		
Standard	300 V	10 A	30 - 16	-		

	VDE approval of drawings Approval ID: 40055394					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
keine						
		200 V	17.5 A	-	0.2 - 1.5	



1985807

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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27460101	
	ECLASS-15.0	27460101	
ETIM			
	ETIM 9.0	EC002643	
UN	ISPSC		

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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%
EF3.0 Climate Change	
CO2e kg	0.023 kg CO2e

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