

1050598

https://www.phoenixcontact.com/us/products/1050598

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB terminal block, nominal current: 13.5 A, rated voltage (III/2): 200 V, nominal cross section: 1.5 mm², 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, 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: 24 mm wide tape

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	1050598
Packing unit	1 pc
Minimum order quantity	280 pc
Sales key	AA12
Product key	AALGAB
GTIN	4055626669403
Weight per piece (including packing)	2.62 g
Weight per piece (excluding packing)	2.621 g
Customs tariff number	85369010
Country of origin	DE



1050598

https://www.phoenixcontact.com/us/products/1050598

Technical data

Product properties

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

Electrical properties

Nominal current I _N	13.5 A
Nominal voltage U _N	200 V
Degree of pollution	3
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

Туре	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 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
Tightening torque	0.22 Nm 0.25 Nm

Mounting

Mounting type	THR soldering
Pin layout	Linear pinning



1050598

https://www.phoenixcontact.com/us/products/1050598

Drive form screw head	Slotted (L)
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)

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	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

Notes

Note on application	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks 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).
---------------------	--

Dimensions

Hole diameter

Dimensional drawing	n n
Pitch	3.5 mm
Width [w]	7.5 mm
Height [h]	12 mm
Length [I]	7.3 mm
Installed height	8.5 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.5 x 0.9 mm
PCB design	

1.1 mm



1050598

https://www.phoenixcontact.com/us/products/1050598

Electrical tests

Air clearances and creepage distances |

/ iii cicaranices and cicepage dictanices	
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

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

Dimensional drawing	
Type of packaging	24 mm wide tape
[W] tape width	24 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Dry bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



1050598

https://www.phoenixcontact.com/us/products/1050598

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1050598

	CULus Recognized Approval ID: E60425-19770427			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
Only flexible conductors	300 V	13.5 A	30 - 16	-
Standard	300 V	10 A	30 - 16	-
Use group D				
Only flexible conductors	150 V	13.5 A	30 - 16	-
Standard	300 V	10 A	30 - 16	-

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



1050598

https://www.phoenixcontact.com/us/products/1050598

Classifications

ECLASS

	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
	ECLASS-13.0	27460101
ETIM		
	ETIM 8.0	EC002643
UNSPSC		
	UNSPSC 21.0	39121400



1050598

https://www.phoenixcontact.com/us/products/1050598

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com