

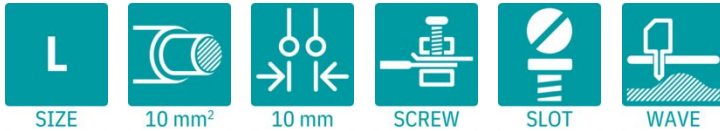
KDS10/ 4+3RZ BS:L1,L2,L3,N - PCB terminal block



1928055

<https://www.phoenixcontact.com/us/products/1928055>

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The figure shows a 5-pos. version of the product

PCB terminal block, nominal current: 76 A, rated voltage (III/2): 320 V, nominal cross section: 10 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: KDS 10, pitch: 10 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.3 mm, number of solder pins per potential: 4, type of packaging: packed in cardboard

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Potentials can be easily looped through with additional connection to the PCB
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1928055
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AANFCA
GTIN	4017918198237
Weight per piece (including packing)	72.46 g
Weight per piece (excluding packing)	71.944 g
Country of origin	DE

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Technical data

Product properties

Product type	PCB terminal block
Product family	KDS 10
Product line	COMBICON Terminals L
Type	PCB terminal block can be aligned in rows+feed-through terminal block
Number of positions	4
Pitch	10 mm
Number of connections	8
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	4

Electrical properties

Properties

Nominal current I_N	76 A
Nominal voltage U_N	320 V
Rated voltage (III/3)	250 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)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Type	PCB terminal block can be aligned in rows+feed-through terminal block
Nominal cross section	10 mm ²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross-section rigid	0.5 mm ² ... 16 mm ²
Conductor cross-section flexible	0.5 mm ² ... 10 mm ²
Conductor cross-section AWG	20 ... 6
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.5 mm ² ... 10 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm ² ... 10 mm ²
2 conductors with same cross section, rigid	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, flexible	0.5 mm ² ... 4 mm ²
2 conductors with same cross section, flexible, with ferrule	0.5 mm ² ... 2.5 mm ²

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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 6 mm ²
Stripping length	12 mm
Drive form screw head	Slotted (L)
Tightening torque	1.2 Nm ... 1.5 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

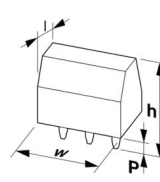
Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface terminal point (top layer)	Tin (5 µm - 7 µm Sn)
Metal surface terminal point (middle layer)	Nickel (2 µm - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 µm - 7 µm Sn)
Metal surface soldering area (middle layer)	Nickel (2 µm - 3 µm Ni)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
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

Dimensional drawing	
Pitch	10 mm
Width [w]	20 mm
Height [h]	33.3 mm
Length [l]	36.8 mm
Installed height	29 mm

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Solder pin length [P]	4.3 mm
Pin dimensions	1 x 0.9 mm

PCB design

Hole diameter	1.4 mm
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Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60998-2-1:1990-04
Result	Test passed

Pull-out test

Specification	IEC 60998-2-1:1990-04
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.5 mm ² / solid / > 30 N
	0.5 mm ² / flexible / > 30 N
	16 mm ² / solid / > 100 N
	10 mm ² / flexible / > 90 N

Torque test

Specification	IEC 60998-2-1:1990-04
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Electrical tests

Temperature-rise test

Specification	IEC 60998-2-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Insulation resistance

Specification	IEC 60998-2-1:1990-04
Insulation resistance, neighboring positions	10 ⁹ Ω

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 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 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm

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minimum creepage distance (II/2)	3.2 mm
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Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Glow-wire test

Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s

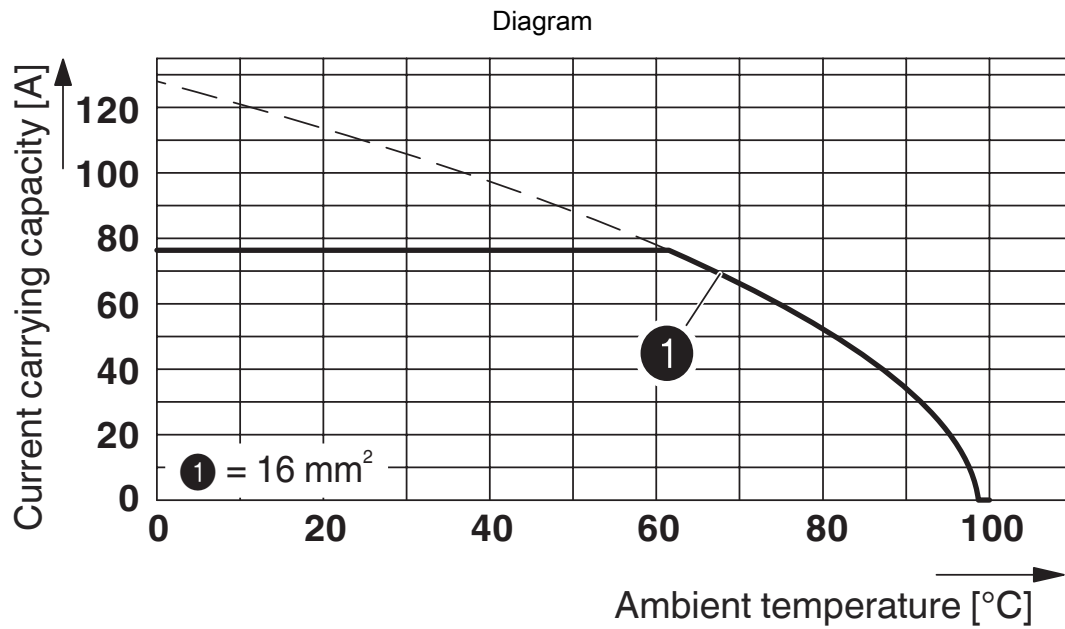
Ambient conditions

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

Packaging specifications

Type of packaging	packed in cardboard
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Drawings



Type: KDS 10

Test following DIN EN 60512-5-2:2003-01

Reduction factor = 1

No. of positions: 5

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Approvals

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 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	300 V	65 A	18 - 6	-
C	300 V	65 A	18 - 6	-

 cUL Recognized Approval ID: E60425-19860304				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	250 V	65 A	24 - 6	-
C	300 V	65 A	24 - 6	-
D	600 V	5 A	24 - 6	-

 UL Recognized Approval ID: E60425-19860304				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	250 V	65 A	24 - 6	-
C	300 V	65 A	24 - 6	-
D	600 V	5 A	24 - 6	-

 VDE approval of drawings Approval ID: 40055394				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine	320 V	76 A	-	0.2 - 16

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Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

ETIM 10.0	EC002643
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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EF3.1 Climate Change

CO2e kg	0.409 kg CO2e
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