1714955

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: MKDS 5, pitch: 6.35 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]: 5.1 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1714955
Packing unit	50 рс
Minimum order quantity	50 pc
Sales key	AA14
Product key	AANFDC
Catalog page	Page 443 (C-1-2013)
GTIN	4017918024093
Weight per piece (including packing)	5.526 g
Weight per piece (excluding packing)	5.152 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	MKDS 5
Product line	COMBICON Terminals L
Туре	PC terminal block can be aligned
Number of positions	2
Pitch	6.35 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	32 A
Nominal voltage U _N	630 V
Degree of pollution	3
Rated voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology	
Туре	PC terminal block can be aligned
Nominal cross section	4 mm ²
Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm ² 6 mm ²
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section AWG	24 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 4 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 4 mm ²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm ² 2.5 mm ²

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1714955

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ferrule with plastic sleeve	
Stripping length	8 mm
Tightening torque	0.5 Nm 0.6 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
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 (4 - 8 μm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)

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	VO
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

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

Dimensional drawing	h p p
Pitch	6.35 mm
Width [w]	12.7 mm



1714955

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Height [h]	26.6 mm
Length [I]	12.5 mm
Installed height	21.5 mm
Solder pin length [P]	5.1 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm

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	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	6 mm² / solid / > 80 N
	4 mm² / flexible / > 60 N

Torque test

Specification	IFC 60998-2-1 1990-04
opeenieuten	20 00000 2 111000 01

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	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	6.3 mm
Note on connection cross section	With connected conductor 6 mm ² (solid).
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm



1714955

https://www.phoenixcontact.com/us/products/1714955

minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

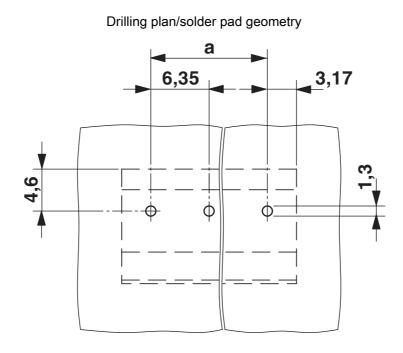
Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s
abient conditions	
Ambient 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 %
	-5 °C 100 °C



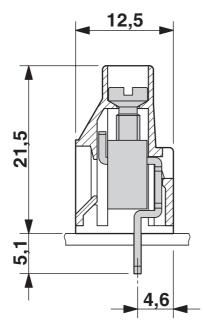
1714955

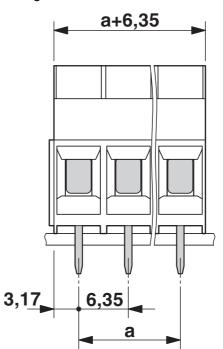
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Drawings



Dimensional drawing

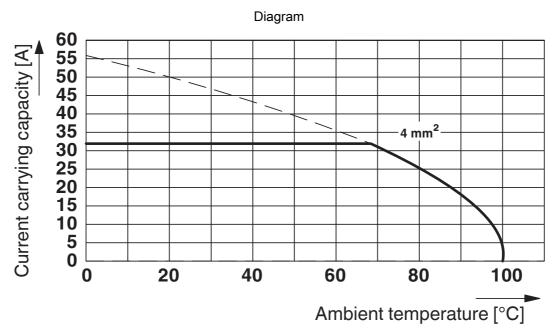






1714955

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Type: MKDS 5/2-6,35 and MKDS 5/3-6,35 Test following DIN EN 60512-5-2:2003-01

Reduction factor = 1 No. of positions: 5



1714955

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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1714955

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	10 A	28 - 10	-
Use group D				
	300 V	10 A	28 - 10	-

Approval ID: E60425-19770427			
Nominal voltage U _N	Nominal current I_N	Cross section AWG	Cross section mm ²
300 V	30 A	30 - 10	-
300 V	10 A	30 - 10	-
	Nominal voltage U _N 300 V	Nominal voltage U _N Nominal current I _N 300 V 30 A	Nominal voltage U _N Nominal current I _N Cross section AWG 300 V 30 A 30 - 10



DNV GL Approval ID: TAE00001EV

VDE Zeichengenel Approval ID: 40055394	nmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	630 V	32 A	-	0.2 - 4

1714955

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Classifications

ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
ECLASS-13.0 27460101	ECLASS-13.0	27460101

ETIM

	ETIM 9.0	EC002643
UN	NSPSC	
	UNSPSC 21.0	39121400

1714955

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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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