1710726

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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 6, number of rows: 1, number of positions per row: 6, product range: MKDS 1,5, pitch: 5.08 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]: 3.5 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	1710726
Packing unit	50 рс
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALFGG
GTIN	4017918229115
Weight per piece (including packing)	8.58 g
Weight per piece (excluding packing)	8.047 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 1,5
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	6
Pitch	5.08 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	17.5 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

PC terminal block can be aligned
1.5 mm ²
Screw connection with tension sleeve
0.14 mm ² 2.5 mm ²
0.14 mm ² 1.5 mm ²
26 14
0.25 mm² 1.5 mm²
0.25 mm² 1.5 mm²
0.14 mm ² 1 mm ²
0.14 mm² 0.75 mm²
0.25 mm ² 0.5 mm ²
0.5 mm² 1 mm²

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ferrule with plastic sleeve	
Stripping length	7 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	1
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

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
Pitch	5.08 mm
Width [w]	30.48 mm

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Height [h]	17.3 mm
Length [I]	9.8 mm
Installed height	13.8 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm

Mechanical tests

Test for conductor	damage and slackening
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Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	

Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / solid / > 10 N
	0.14 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	1.5 mm² / flexible / > 40 N

Electrical tests

Femperature-rise test	
Specification	IEC 60947-7-4:2019-01
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
hort-time withstand current	
Specification	IEC 60947-7-4:2019-01
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
ir clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	1
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
Note on connection cross section	With connected conductor 2.5 mm ² (solid).
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV



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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
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

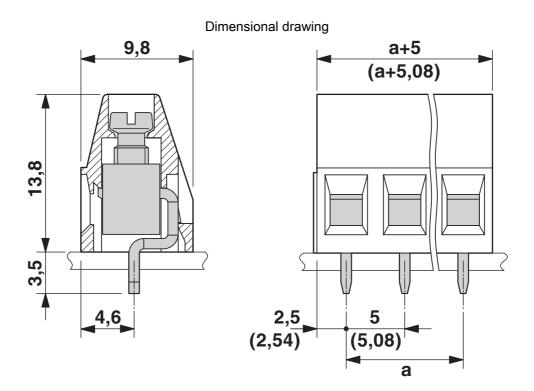
pecification	IEC 60068-2-6:2007-12
requency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
w-wire test	
Specification	IEC 60695-2-10:2013-04
Femperature	850 °C
Time of exposure	5 s
ng	
Specification	IEC 60947-7-4:2019-01
bient conditions	
Ambient temperature (operation)	-40 °C 105 °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
aging specifications	



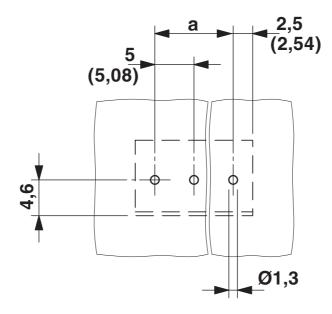
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Drawings



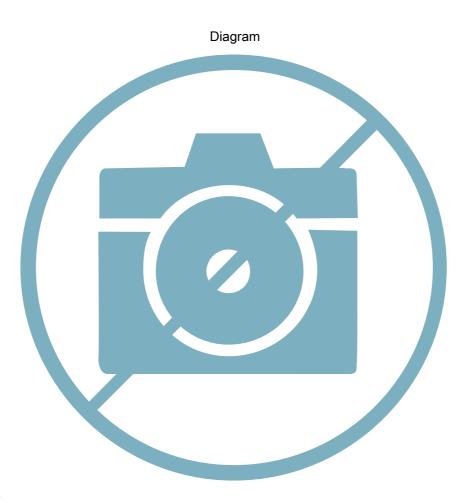
Drilling plan/solder pad geometry





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Type: MKDS 1,5/...-5,08



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1710726

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 - 14	-
Use group D				
	300 V	10 A	28 - 14	-

Approval ID: E60425-19770427			
Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
300 V	15 A	30 - 14	-
300 V	10 A	30 - 14	-
	Nominal voltage U _N 300 V	Nominal voltage U _N Nominal current I _N 300 V 15 A	Nominal voltage U _N Nominal current I _N Cross section AWG 300 V 15 A 30 - 14



DNV GL Approval ID: TAE00001EV

VDE Zeichengene Approval ID: 40055394	hmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	400 V	24 A	-	0.2 - 2.5

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Classifications

ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
ECLASS-13.0 2/460101	ECLASS-13.0	27460101

ETIM

	ETIM 9.0	EC002643
U	NSPSC	
	UNSPSC 21.0	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

SZS 0,6X3,5 - Screwdriver

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



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

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

0804293

https://www.phoenixcontact.com/us/products/0804293



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08×3.8 mm

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RZ 1,25-MKDS 1,5 - Pitch spacer

1702048

https://www.phoenixcontact.com/us/products/1702048



Pitch spacer, for adjusting the pitches between MKDS and GMKDS terminal blocks in mixed rows, 1.25 mm thick

EBP 2-5 - Insertion bridge

1733169 https://www.phoenixcontact.com/us/products/1733169

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



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EBP 3-5 - Insertion bridge

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

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch

EBP 4-5 - Insertion bridge

1733185 https://www.phoenixcontact.com/us/products/1733185

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch

EBP 5-5 - Insertion bridge

1733198 https://www.phoenixcontact.com/us/products/1733198

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch

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EBP 6-5 - Insertion bridge

1733208

https://www.phoenixcontact.com/us/products/1733208

Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



CRIMPFOX 6 - Crimping pliers

1212034 https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm^2 , lateral entry, trapezoidal crimp

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