

1721236

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PCB terminal block, nominal current: 22 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of rows: 2, number of positions per row: 3, product range: MKKDS 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: blue, Pin layout: Linear pinning, Solder pin [P]: 5 mm, number of solder pins per potential: 1, 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
- · Conductor connection on several levels enables higher contact density
- · Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1721236
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA13
Product key	AAMFKD
GTIN	4017918258061
Weight per piece (including packing)	15.05 g
Weight per piece (excluding packing)	13.543 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MKKDS 3
Product line	COMBICON Terminals M
Туре	PC terminal block can be aligned
Number of positions	3
Pitch	5 mm
Number of rows	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	22 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

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	2.5 mm²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²
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 mm² 0.75 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.5 mm²
Stripping length	7 mm



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Tightening torque	0.5 Nm 0.6 Nm		
Mounting			
Mounting type	Wave soldering		
Pin layout	Linear pinning		
Drive form screw head	Slotted (L)		
Material enecifications			

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

Material data medeling	
Color (Housing)	blue (5015)
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	n p
Pitch	5 mm
Width [w]	17.5 mm
Height [h]	36.5 mm
Length [I]	22.3 mm
Installed height	31.5 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm



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Mechanical tests

Test for	conductor	damada	and c	lackening
restroi	Conductor	uamaue :	anu s	iackeninu

IEC 60998-2-1:2002-12
Test passed
IEC 60998-2-1:2002-12
0.2 mm² / solid / > 10 N
0.2 mm² / flexible / > 10 N
4 mm² / solid / > 60 N
2.5 mm² / flexible / > 50 N

IEC 60998-2-1:2002-12

Electrical tests

Temperature-rise test

Specification

Specification	IEC 60998-1:2002-12
Requirement temperature-rise test	Increase in temperature ≤ 45 K
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Insulation resistance

Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 80 GΩ

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)	400 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
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration test

Specification IEC	C 60068-2-6:2007-12
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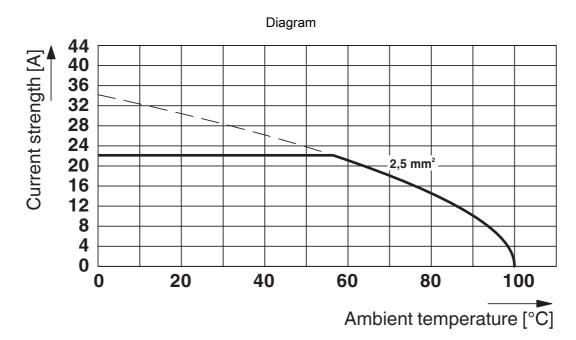
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ilow-wire test	
Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
mbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (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
skaging specifications	
Type of packaging	packed in cardboard
Type of packaging	packed in cardboard



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Drawings



Type: MKKDS 3/2 and MKKDS 3/3

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

Reduction factor = 1 No. of positions: 5



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1721236

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 - 12	-
Use group D				
	300 V	10 A	28 - 12	-

VDE Zeichengeneh Approval ID: 40055535	nmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	400 V	24 A	-	0.2 - 4

cULus Recognized Approval ID: E60425-19870326				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
Screw connection	125 V	15 A	30 - 12	-
2 conductors with the same cross-section	125 V	15 A	16	-
Use group D				
Screw connection	300 V	10 A	30 - 12	-
2 conductors with the same cross-section	300 V	10 A	16	-



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Classifications

UNSPSC 21.0

ECLASS

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

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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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