

MKKDSA 3/ 2 (VPE250) - PCB terminal block



1721171

<https://www.phoenixcontact.com/us/products/1721171>

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.



The figure shows the standard type

Printed circuit board terminal, 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: 2, product range: MKKDSA 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: green, 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	1721171
Packing unit	250 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AAMFKE
GTIN	4017918229030
Weight per piece (including packing)	9.296 g
Weight per piece (excluding packing)	9.2 g
Country of origin	CN

MKKDSA 3/ 2 (VPE250) - PCB terminal block



1721171

<https://www.phoenixcontact.com/us/products/1721171>

Technical data

Product properties

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

Electrical properties

Properties

Nominal current I_N	22 A
Nominal voltage U_N	400 V
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

Type	PC terminal block can be aligned
Nominal cross section	2.5 mm ²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm ² ... 2.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
2 conductors with same cross section, rigid	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.75 mm ²
Stripping length	8 mm
Drive form screw head	Slotted (L)

MKKDSA 3/ 2 (VPE250) - PCB terminal block



1721171

<https://www.phoenixcontact.com/us/products/1721171>

Tightening torque	0.5 Nm ... 0.6 Nm
-------------------	-------------------

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

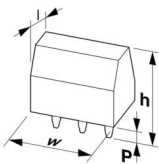
Material data - contact

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 (4 µm - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 µm - 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	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	5 mm
Width [w]	10 mm
Height [h]	36.4 mm
Length [l]	22.3 mm
Installed height	31.4 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm

PCB design

Hole diameter	1.3 mm
---------------	--------

Electrical tests

MKKDSA 3/ 2 (VPE250) - PCB terminal block



1721171

<https://www.phoenixcontact.com/us/products/1721171>

Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Environmental and real-life conditions

Ambient conditions

Relative humidity (storage/transport)	30 % ... 70 %
---------------------------------------	---------------

Packaging specifications

Type of packaging	packed in cardboard
-------------------	---------------------

MKKDSA 3/ 2 (VPE250) - PCB terminal block




1721171

<https://www.phoenixcontact.com/us/products/1721171>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1721171>

 VDE approval of drawings Approval ID: 40055394				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	400 V	24 A	-	0.2 - 4

MKKDSA 3/ 2 (VPE250) - PCB terminal block



1721171

<https://www.phoenixcontact.com/us/products/1721171>

Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

ETIM 10.0	EC002643
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

MKKDSA 3/ 2 (VPE250) - PCB terminal block



1721171

<https://www.phoenixcontact.com/us/products/1721171>

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%
-------------------------------------	----------------------------

EF3.1 Climate Change

CO2e kg	0.09 kg CO2e
---------	--------------

Phoenix Contact 2026 © - 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