

GMKDSF 3/ 2 BK - PCB terminal block

1838909

<https://www.phoenixcontact.com/us/products/1838909>

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 a 3-position version

Printed circuit board terminal, nominal cross section: 2.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: GMKDSF 3, pitch: 7.5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: black, Pin layout: Linear pinning, Solder pin [P]: 4 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
- Larger pitch for increased voltage requirements
- 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	1838909
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AAMFJC
GTIN	4017918323554
Weight per piece (including packing)	5.06 g
Weight per piece (excluding packing)	4.62 g
Country of origin	DE

GMKDSF 3/ 2 BK - PCB terminal block



1838909

<https://www.phoenixcontact.com/us/products/1838909>

Technical data

Product properties

Product type	Printed circuit board terminal
Product family	GMKDSF 3
Product line	COMBICON Terminals M
Number of positions	2
Pitch	7.5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Connection data

Conductor connection

Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)

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	hot-dip 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)	black (9005)
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

GMKDSF 3/ 2 BK - PCB terminal block



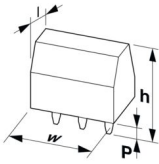
1838909

<https://www.phoenixcontact.com/us/products/1838909>

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	
Pitch	7.5 mm
Width [w]	15 mm
Height [h]	15.2 mm
Length [l]	18 mm
Installed height	11.2 mm
Solder pin length [P]	4 mm

PCB design

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

Environmental and real-life conditions

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
-------------------	---------------------

GMKDSF 3/ 2 BK - PCB terminal block



1838909

<https://www.phoenixcontact.com/us/products/1838909>

Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

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

UNSPSC

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

GMKDSF 3/ 2 BK - PCB terminal block



1838909

<https://www.phoenixcontact.com/us/products/1838909>

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

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