

1758713

https://www.phoenixcontact.com/us/products/1758713

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.



PCB terminal block, nominal current: 20 A, nominal cross section: 2.5 mm<sup>2</sup>, number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKKDSH 3-EX, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: black, 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
- · Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- · Conductor connection on several levels enables higher contact density
- Tall type enables conductor connection for sealed PCBs
- 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	1758713
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA13
Product key	AAMFKB
GTIN	4046356345453
Weight per piece (including packing)	8.278 g
Weight per piece (excluding packing)	8.074 g
Customs tariff number	85369010
Country of origin	CN



1758713

https://www.phoenixcontact.com/us/products/1758713

# Technical data

### Product properties

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

#### Data management status

Article revision	04

# Electrical properties

Nominal current I <sub>N</sub>	20 A
Nominal voltage U <sub>N</sub>	176 V
Rated current / conductor cross section	20 A/2.5 mm²

#### Ex data

#### Ex approval

Identification	0344€ II 2GD / Ex eb IIC Gb
EU-type examination certificate	KEMA 01ATEX2130 U
IECEx certificate	IECEx KEM 07.0019 U

#### 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
	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



1758713

https://www.phoenixcontact.com/us/products/1758713

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 1.5 mm²
Stripping length	7 mm
Drive form screw head	Slotted (L)
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 - 8 μm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 µm Sn)

#### Material data - housing

Material data Tiodoling	
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

# 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**



1758713

https://www.phoenixcontact.com/us/products/1758713

Type of packaging

Dimensional drawing	n p
Pitch	5 mm
Width [w]	15 mm
Height [h]	36.5 mm
Length [I]	11.1 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
vironmental and real-life conditions  Ambient conditions	
Ambient temperature (operation)	-50 °C 110 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
	30 % 70 %
Relative humidity (storage/transport)	66 /6 iii 16 /6

packed in cardboard



1758713

https://www.phoenixcontact.com/us/products/1758713

# **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1758713



ATEX

Approval ID: KEMA 01ATEX2130 U



**IECEx** 

Approval ID: IECEx KEM 07.0019 U



**EAC Ex** 

Approval ID: B.00065/19



1758713

https://www.phoenixcontact.com/us/products/1758713

# Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27460101	
	ECLASS-12.0	27460101	
	ECLASS-13.0	27460101	
ETIM			
	ETIM 9.0	EC002643	
UNS	SPSC		

39121400



1758713

https://www.phoenixcontact.com/us/products/1758713

# Environmental product compliance

#### EU RoHS

20 1.01.0	
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 2024 @ - 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