

1931259

https://www.phoenixcontact.com/us/products/1931259

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.



Printed circuit board terminal, nominal current: 32 A, rated voltage (III/2): 1000 V, nominal cross section: 4 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKDS 5 HV, pitch: 9.52 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 back pinning, Solder pin [P]: 5.2 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	1931259
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AANFDD
GTIN	4017918837884
Weight per piece (including packing)	9.831 g
Weight per piece (excluding packing)	9.812 g
Country of origin	PL



1931259

https://www.phoenixcontact.com/us/products/1931259

Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MKDS 5 HV
Product line	COMBICON Terminals L
Туре	PC terminal block can be aligned
Number of positions	3
Pitch	9.52 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear back pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I _N	32 A
Nominal voltage U _N	1000 V
Rated voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	4 mm²
Conductor connection	

Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross-section rigid	0.2 mm² 6 mm²
Conductor cross-section flexible	0.2 mm² 4 mm²
Conductor cross-section AWG	24 10
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 4 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
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 mm² 0.75 mm²



1931259

https://www.phoenixcontact.com/us/products/1931259

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 2.5 mm²
Stripping length	8 mm
Drive form screw head	Slotted (L)
Tightening torque	0.5 Nm 0.6 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear back 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

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 h
Pitch	9.52 mm



1931259

https://www.phoenixcontact.com/us/products/1931259

Width [w]	28.56 mm
Height [h]	26.7 mm
Length [I]	16 mm
Installed height	21.5 mm
Solder pin length [P]	5.2 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm
lechanical tests	
Test for conductor damage and slackening	
Specification	IEC 60998-2-1:1990-04
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:1990-04
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
Setponivacidai valde	0.2 mm² / flexible / > 10 N
	6 mm² / solid / > 80 N
	4 mm² / flexible / > 60 N
Torque test	
Specification	IEC 60998-2-1:1990-04
lectrical tests	
Temperature-rise test	
Specification	IEC 60998-2-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IEC 60998-2-1:1990-04
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	10 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
	\$ 11111



1931259

https://www.phoenixcontact.com/us/products/1931259

minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:1995-03
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
Test directions	X-, Y- and Z-axis

Glow-wire test

Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s

Ambient 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

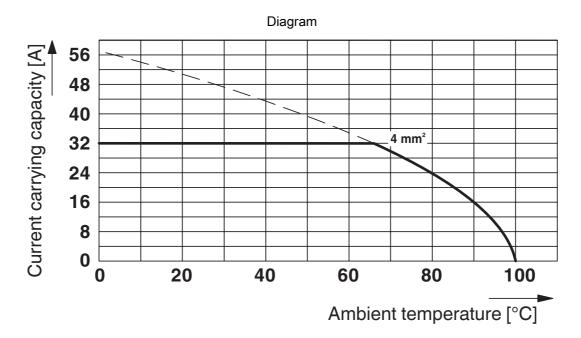
Packaging specifications



1931259

https://www.phoenixcontact.com/us/products/1931259

Drawings



Type: MKDS 5 HV/2-9,52 and MKDS 5 HV/3-9,52

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

Reduction factor = 1 No. of positions: 5



1931259

https://www.phoenixcontact.com/us/products/1931259

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1931259

cULus Recogn Approval ID: E6042	CULus Recognized Approval ID: E60425-19770427			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	30 A	30 - 10	-
С				
	300 V	30 A	30 - 10	-
D				
	600 V	5 A	30 - 10	-

	VDE approval of drawings Approval ID: 40055394			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	1000 V	32 A	-	0.2 - 4



1931259

https://www.phoenixcontact.com/us/products/1931259

Classifications

ECLASS

	ECLASS-13.0	27460101	
	ECLASS-15.0	27460101	
ETIM			
	ETIM 9.0	EC002643	
UNSPSC			
	UNSPSC 21.0	39121400	



1931259

https://www.phoenixcontact.com/us/products/1931259

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%
EF3.0 Climate Change	
CO2e kg	0.057 kg CO2e

Phoenix Contact 2025 @ - 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