ZFKDSA 1,5C-5,0- 4-EXPROFINET1 - PCB terminal block

1033571

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PCB terminal block, nominal current: 16 A, nominal cross section: 1.5 mm^2, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ZFKDS(A) 1,5C-EX PROFINET, pitch: 5 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. PCB terminal block satisfies the requirements of the “Guideline for PROFINET” in the 2017-05 edition, suitable for CAT5

Your advantages

- Satisfies the requirements of the “Guideline for PROFINET” in the edition dated 05/2017
- Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801
- Satisfies the more stringent safety requirements of “Ex e” protection according to IEC 60079-7 for potentially explosive areas
- Defined contact force ensures that contact remains stable over the long term
- Angled connection enables multi-row arrangement on the PCB
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Actuation shafts that are parallel and orthogonal to the conductor axis enable flexible PCB designs
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial data

Item number	1033571
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALMBE
GTIN	4055626539430
Weight per piece (including packing)	4.13 g
Weight per piece (excluding packing)	3.766 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Product properties

Product type	PCB terminal block
Product family	ZFKDS(A) 1,5C-EX PROFINET
Product line	COMBICON Terminals S
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	2

Fitting of components

Partial assembly	No

Electrical properties

Properties

Nominal current I_N	16 A
Nominal voltage U_N	176 V
Rated current / conductor cross-section	16 A/1.5 mm²

Data transmission

Signal type	PROFINET
Frequency range	to 100 MHz
Transmission medium	Copper
Transmission characteristics (category)	CAT5
Data transmission rate	100 Mbps

Ex data

Ex approval

Identification	0344 Ex II 2GD / Ex eb IIC Gb
EU-type examination certificate	DEKRA 22ATEX0001U
IECEx certificate	IECEx DEK 22.0001U

Connection data

Connection technology

Nominal cross section	1.5 mm²

Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²

Conductor cross-section flexible	0.2 mm² ... 1.5 mm²
Stripping length	7 mm

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 (10 µm - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 µm - 16 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

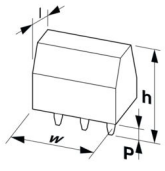
Material data – actuating element

Color (Actuating element)	green (6021)

Notes

Note on application	The item is qualified for CAT5 Ethernet applications. For this reason, it is suited for use in IoT devices.

Dimensions

Dimensional drawing	
Pitch	5 mm
Width [w]	21.9 mm
Height [h]	16.23 mm
Length [l]	14.02 mm

Installed height	12.73 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.7 x 0.7 mm

PCB design

Pin spacing	5.08 mm
Hole diameter	1.1 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)	-50 °C ... 110 °C

Packaging specifications

Type of packaging	packed in cardboard

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Approvals

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IECEx
Approval ID: IECEx DEK 22.0001U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	176 V	16 A	-	0.2 - 2.5

ATEX
Approval ID: DEKRA 22ATEX0001U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	176 V	16 A	-	0.2 - 2.5

Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

ETIM 10.0	EC002643

UNSPSC

UNSPSC 21.0	39121400

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com