PCB terminal block - SPT 2,5/ 4-V-EX PROFINET 2

1034460

https://www.phoenixcontact.com/us/products/1034460

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PCB terminal block, nominal current: 23 A, nominal cross section: 2.5 mm^2, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: SPT 2,5/..-V-EX PROFINET, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear double pinning, Solder pin [P]: 2.5 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 eb” protection according to IEC 60079-7 for potentially explosive areas
- Defined contact force ensures that contact remains stable over the long term
- Operation and conductor connection from one direction enable integration into front of device
- Time saving push-in connection, tools not required
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial Data

Item number	1034460
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	A01
Product Key	AAMBFD
GTIN	4055626540856
Weight per Piece (including packing)	5.982 g
Weight per Piece (excluding packing)	5.982 g
Customs tariff number	85369010
Country of origin	PL

Technical Data

Product properties

Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear double pinning

Electrical properties

Nominal current I_N	23 A
Nominal voltage U_N	176 V
Rated current / conductor cross section	23 A/2.5 mm²
Pollution degree	3
Rated voltage (III/3)	176 V

Ex data

Ex approval

Identification	0344☐ II 2GD / Ex eb IIC Gb
EU-type examination certificate	KEMA 07ATEX0193 U
IECEx certificate	IECEx KEM 07.0057 U

Connection data

Connection technology

Nominal cross section	2.5 mm²

Conductor connection

Connection method	Push-in spring connection
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 2.5 mm² (Stripping length 8 mm)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm² (Stripping length 8 mm)
Stripping length	10 mm

Mounting

Mounting type Wave soldering	Wave soldering
Mounting type	Wave soldering

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 - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 µm Sn)

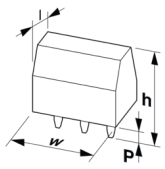
Material data - housing

Housing color	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

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]	23.9 mm
Height [h]	16.9 mm
Length [l]	13.5 mm
Installed height	14.4 mm
Solder pin length [P]	2.5 mm

PCB design

Pin spacing	8.2 mm

Electrical tests

Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	176 V

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-50 °C ... 110 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	packed in cardboard

Approvals

ATEX
Approval ID: KEMA 07ATEX0193 U

IECEx
Approval ID: IECEx KEM 07.0057U

EAC Ex
Approval ID: B.00065/19

Classifications

ECLASS

ECLASS-9.0	27440401
ECLASS-10.0.1	27440401
ECLASS-11.0	27460101

ETIM

ETIM 8.0	EC002643

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Accessories

Screwdriver

Screwdriver - SZF 1-0,6X3,5 - 1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Shield connection clamp

Shield connection clamp - SH-PCB 6 - 1322664

https://www.phoenixcontact.com/us/products/1322664



Shield connection, Shield connection clamp, connection method: Spring-cage connection, product range: ZUBEHOER, width: 11 mm

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