

SPTAF 1/ 4-5,0-IL-EXPROFINET 3 - PCB terminal block

1071100
<https://www.phoenixcontact.com/us/products/1071100>

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Printed circuit board terminal, nominal current: 16 A, nominal cross section: 1.5 mm², number of rows: 1, number of positions per row: 4, product range: SPTAF 1/...-IL-EX PROFINET, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 2.6 mm, number of solder pins per potential: 2, type of packaging: Tray. Suitable for CAT5

Your advantages

- Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801

Commercial data

Item number	1071100
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	AA12
Product key	AALBGE
GTIN	4063151101107
Weight per piece (including packing)	2.613 g
Weight per piece (excluding packing)	2.365 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	SPTAF 1/...IL-EX PROFINET
Product line	COMBICON Terminals S
Number of positions	4
Pitch	5 mm
Number of rows	1
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Properties

Nominal current I_N	16 A
Nominal voltage U_N	137 V

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 2G Ex eb IIC T6...T1 Gb
EU-type examination certificate	SEV 19 ATEX 0159 U
IECEx certificate	IECEx SEV 19.0026U

Connection data

Connection technology

Nominal cross section	1.5 mm ²
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Conductor connection

Connection method	Push-in spring connection
Conductor cross-section rigid	0.2 mm ² ... 1.5 mm ² (When connecting and possibly adjusting a solid conductor of 1.5 mm ² , the mechanical lateral forces, which can affect the terminal block, have to be absorbed by lateral support.)
	0.34 mm ² ... 1.5 mm ² (Push-in connection)
Conductor cross-section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 16
Conductor cross-section flexible, with ferrule without plastic	0.25 mm ² ... 0.75 mm ² (Conductor connection with open terminal)

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sleeve	point) 0.5 mm² ... 0.75 mm² (Push-in connection)
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 0.75 mm² (Conductor connection with open terminal point) 0.5 mm² ... 0.75 mm² (Push-in connection)
Stripping length	8 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 (2 - 4 µm Sn)
Metal surface soldering area (top layer)	Tin (2 - 4 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)	orange (2003)
Insulating material	PBT
Insulating material group	IIIa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

Notes

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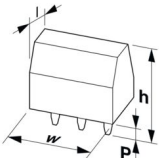
Dimensions

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Dimensional drawing	
Pitch	5 mm
Width [w]	20 mm
Height [h]	10.6 mm
Length [l]	11 mm
Installed height	8 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.75 x 0.3 mm

PCB design

Hole diameter	1.1 mm
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Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.2 mm ² / solid / > 10 N
	0.25 mm ² / flexible / > 10 N
	1.5 mm ² / solid / > 40 N
	1.5 mm ² / flexible / > 40 N

Electrical tests

Temperature-rise test

Specification	IEC 60947-7-4:2013-08
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.

Short-time withstand current

Specification	IEC 60947-7-4:2013-08
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Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

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Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
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 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2013-08
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Ambient conditions

Ambient temperature (operation)	-60 °C ... 100 °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	Tray
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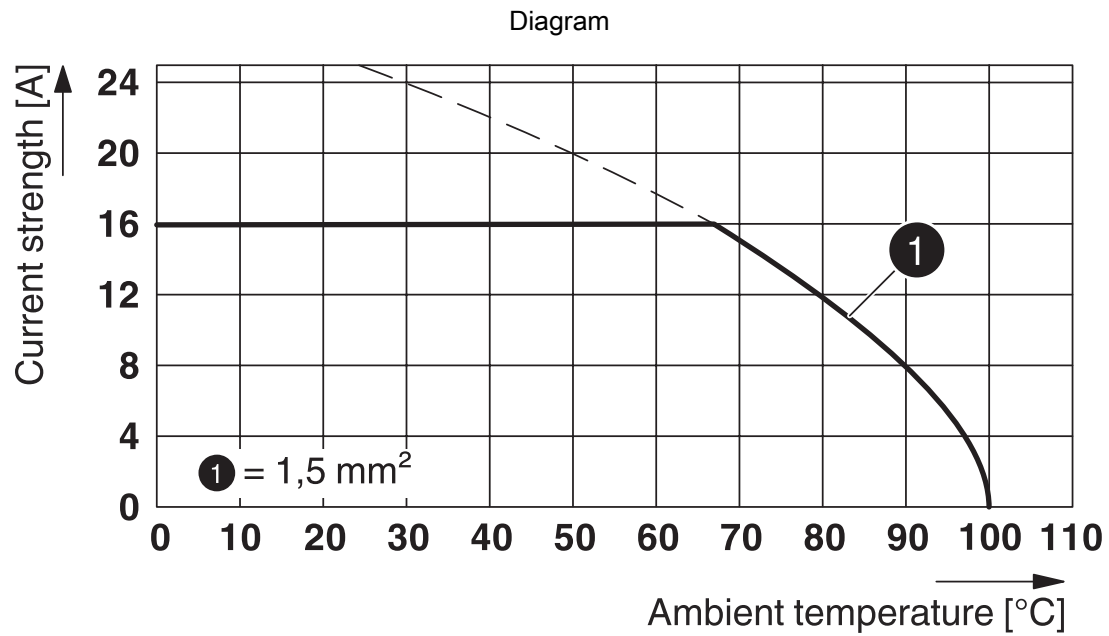
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Drawings



Type: SPTAF 1/...-5,0-IL(EL)

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Approvals

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IECEx

Approval ID: IECEx SEV 19.0026U



ATEX

Approval ID: SEV 19 ATEX 0159 U

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Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

ETIM 9.0	EC002643
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UNSPSC

UNSPSC 21.0	39121400
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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	0.087 kg CO2e

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