1862042

https://www.phoenixcontact.com/us/products/1862042



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PCB terminal block, nominal current: 16 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: SPTAF 1/..-EL, pitch: 3.5 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

Your advantages

- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · Finger-operated release button for very convenient operation
- · Small component size for applications where space is at a premium
- · Quick and convenient testing using integrated test option

Commercial Data

Item number	1862042
Packing unit	1 pc
Minimum order quantity	195 pc
Sales Key	A01
Product Key	AALBGH
GTIN	4055626135236
Weight per Piece (including packing)	1.224 g
Weight per Piece (excluding packing)	1.178 g
Customs tariff number	85369010
Country of origin	PL



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Product properties

Technical Data

Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Number of positions	2
Pitch	3.5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning

Electrical properties

Nominal current I _N	16 A
Nominal voltage U _N	160 V
Pollution degree	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

Connection data

1.5 mm ²
Push-in spring connection
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.)
0.2 mm ² 1.5 mm ²
24 16

Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 0.75 mm ²
Stripping length	8 mm

Mounting

Mounting type Wave soldering	Wave soldering
Mounting type	Wave soldering
Processing notes	
Process	Wave soldering



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Material specifications

Material data - contact	
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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	
Housing color	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

Material data - actuating element

Temperature for the ball pressure test according to EN 60695-

Color of the actuating lever	orange (2003)
Insulating material	PBT
Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

125 °C

Notes

Note on application	Maximum permissible outer diameter of the wire insulation ≤ 3
	mm

Dimensions

10-2

Dimensional drawing	h p
Pitch	3.5 mm
Width [w]	8.5 mm
Height [h]	12.8 mm
Length [I]	11 mm
Installed height	10.2 mm
Solder pin length [P]	2.6 mm

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5 mm
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
Test passed
IEC 60999-1:1999-11
IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N
0.2 mm² / solid / > 10 N

IEC 60947-7-4:2013-08
The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
IEC 60947-7-4:2013-08
IEC 60512-3-1:2002-02
> 5 MΩ
IEC 60947-1:2007-06 + A1:2010-12
1
CTI 600
160 V
2.5 kV
1.5 mm
2 mm
160 V
2.5 kV
1.5 mm
0.8 mm
320 V

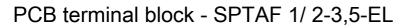
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Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Environmental and real-life conditions

pecification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5g (60.1 - 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
ing Specification	IEC 60947-7-4:2013-08
bient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
aging specifications	
Type of packaging	Tray

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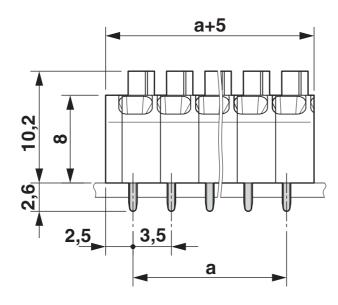


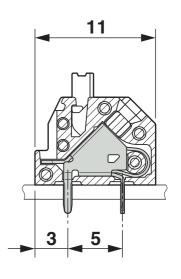
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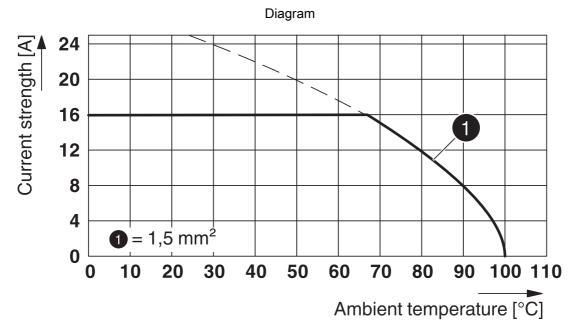


Drawings

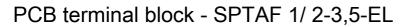
Dimensional drawing





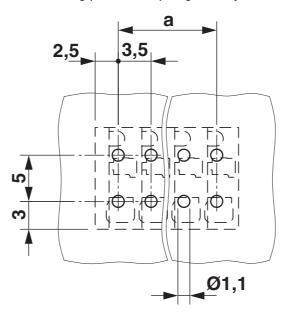


Type: SPTAF 1/...-3,5-IL(EL)





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Drilling plan/solder pad geometry



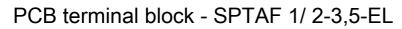
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Approvals

Approval ID: E60425-20061129				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	300 V	8 A	24 - 16	-
Use group D				
	300 V	8 A	24 - 16	-
EAC Approval ID: B.01687				

Approval ID: 40047107					
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		160 V	16 A	-	0.2 - 1.5



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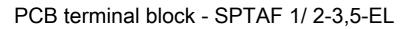
Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002643
UN	NSPSC	
	UNSPSC 21.0	39121400

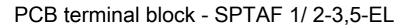


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Environmental Product Compliance

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



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Accessories

Screwdriver

Screwdriver - SZF 0-0,4X2,5 - 1204504 https://www.phoenixcontact.com/us/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.4 \times 2.5 \times 75$ mm, 2-component grip, with non-slip grip

Crimping pliers

Crimping pliers - CRIMPFOX 6 - 1212034 https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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