

1862246

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Printed circuit board terminal, nominal current: 16 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm², number of potentials: 14, number of rows: 1, number of positions per row: 14, 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: packed in cardboard

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	1862246
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBGH
GTIN	4055626137827
Weight per piece (including packing)	7.172 g
Weight per piece (excluding packing)	6.99 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/EL
Product line	COMBICON Terminals S
Number of positions	14
Pitch	3.5 mm
Number of connections	14
Number of rows	1
Number of potentials	14
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Properties

Nominal current I _N	16 A
Nominal voltage U _N	160 V
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
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Nominal cross section	1.5 mm ²
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 mm² 1.5 mm²
Conductor cross-section AWG	24 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ² (Conductor connection with open terminal point)
	0.5 mm ² 0.75 mm ² (Push-in connection)
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 0.75 mm ² (Conductor connection with open terminal point)
	0.5 mm ² 0.75 mm ² (Push-in connection)



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Dimensions



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Dimensional drawing	P
Pitch	3.5 mm
Width [w]	50.5 mm
Height [h]	12.8 mm
Length [I]	11 mm
Installed height	10.2 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.75 x 0.3 mm
PCB design Pin spacing	5 mm
Hole diameter	1.1 mm
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	
- ull-out test	IEC 60999-1:1999-11
Specification	120 00000 1.1000 11
Specification Conductor cross-section/conductor type/tractive force	0.2 mm² / solid / > 10 N
Specification	
Specification Conductor cross-section/conductor type/tractive force	0.2 mm² / solid / > 10 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
Insulation resistance	
Specification	IEC 60512-3-1:2002-02



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Insulation resistance, neighboring positions	> 5 MΩ
Air alassas and assas distance I	
Air clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	0.8 mm
Rated insulation voltage (II/2)	320 V
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

Vibration	test
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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
Ambient 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

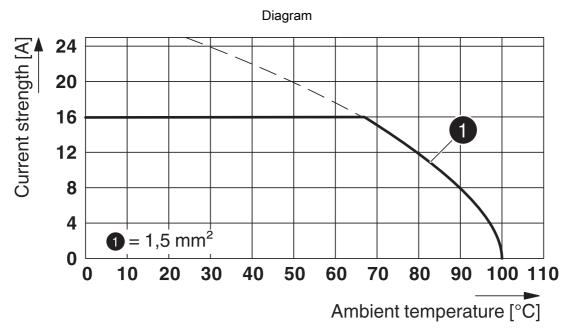
Packaging specifications



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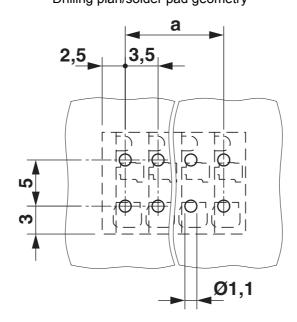


Drawings



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

Drilling plan/solder pad geometry





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1862246

	VDE approval of drawings Approval ID: 40047107				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		160 V	16 A	-	0.2 - 1.5



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Classifications

ECLASS

	ECLASS-13.0	27460101			
	ECLASS-15.0	27460101			
ETIM					
	ETIM 9.0	EC002643			
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	0.234 kg CO2e

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