

1089948

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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 6, number of rows: 1, number of positions per row: 6, product range: BC-X14, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: pastel green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

Commercial data

Item number	1089948	
Packing unit	1 pc	
Minimum order quantity	1,000 pc	
Note	Made to order (non-returnable)	
Sales key	AA12	
Product key	AALFPD	
GTIN	4055626894782	
Weight per piece (including packing)	8.62 g	
Weight per piece (excluding packing)	8 g	
Customs tariff number	85369010	
Country of origin	CN	



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Technical data

Product properties

Product line	COMBICON Terminals S	
Product type	Printed circuit board terminal	
Product family	BC-X14	
Number of positions	6	
Pitch	5.08 mm	
Number of connections	6	
Number of rows	1	
Number of potentials 6		
Pin layout	Linear pinning	
Solder pins per potential	1	

Electrical properties

Nominal current I _N	17.5 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned		
Nominal cross section	1.5 mm²		
Conductor connection			
Connection method	Screw connection with tension sleeve		
Conductor cross section rigid	0.14 mm² 2.5 mm²		
Conductor cross section flexible	0.14 mm² 1.5 mm²		
Conductor cross section AWG	26 14		
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²		

Sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with same cross section, solid	0.14 mm² 1 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 0.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²



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Stripping length Tightening torque	0.5 Nm 0.6 Nm	
ignitering torque	0.5 Mill 0.6 Mill	
nting		
Mounting type	Wave soldering	
Pin layout	Linear pinning	
Drive form screw head	Slotted Phillips recess (H1L)	
Connection method	Screw connection with tension sleeve	
Drive form screw head	Slotted Phillips recess (H1L)	
terial specifications		
laterial data - contact		
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201	
Contact material	Cu alloy	
Surface characteristics	Tin-plated	
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)	
Metal surface terminal point (middle layer)	Nickel (2 - 3 μm Ni) Tin (5 - 7 μm Sn) Nickel (2 - 3 μm Ni)	
Metal surface soldering area (top layer)		
Metal surface soldering area (middle layer)		
laterial data - housing		
Color (Housing)	pastel green (6019)	
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	
es		
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Dimensions

tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection

(held with one hand, support on the housing).



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Dimensional drawing	h
Pitch	5.08 mm
Width [w]	30.48 mm
Height [h]	17.3 mm
Length [I]	9.8 mm
Installed height	13.8 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm

Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04		
Insulating material group	I		
Comparative tracking index (IEC 60112)	CTI 600		
Rated insulation voltage (III/3)	250 V		
Rated surge voltage (III/3)	4 kV		
minimum clearance value - non-homogenous field (III/3)	3 mm		
minimum creepage distance (III/3)	3.2 mm		
Rated insulation voltage (III/2)	400 V		
Rated surge voltage (III/2)	4 kV		
minimum clearance value - non-homogenous field (III/2)	3 mm		
minimum creepage distance (III/2)	3 mm		
Rated insulation voltage (II/2)	630 V		
Rated surge voltage (II/2)	4 kV		
minimum clearance value - non-homogenous field (II/2)	3 mm		
minimum creepage distance (II/2)	3.2 mm		

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/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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ype of packaging	packed in cardboard
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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1089948

CULus Recognized Approval ID: E60425-20071007					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B	Use group B				
	300 V	15 A	30 - 14	-	

VDE Zeichengenehmigung Approval ID: 40042618					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
	400 V	17.5 A	-	0.14 - 2.5	



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 8.0	EC002643
UNSPSC	

39121400



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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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