

1725656

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Printed circuit board terminal, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: MPT 0,5, pitch: 2.54 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- Extremely small design for the respective conductor cross section

Commercial data

Item number	1725656
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA11
Product key	AAKFAA
Catalog page	Page 83 (C-1-2013)
GTIN	4017918106386
Weight per piece (including packing)	0.621 g
Weight per piece (excluding packing)	0.567 g
Customs tariff number	85369010
Country of origin	GR



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MPT 0,5
Product line	COMBICON Terminals XS
Туре	PC termination block
Number of positions	2
Pitch	2.54 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Rated voltage (III/3)	63 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

PC termination block
0.5 mm²
Screw connection with tension sleeve

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.14 mm² 0.5 mm²
Conductor cross section AWG	26 20
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with same cross section, solid	0.14 mm² 0.34 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.34 mm²
Stripping length	4.5 mm
Drive form screw head	Slotted (L)
Tightening torque	0.12 Nm 0.15 Nm



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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	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

Material data - housing

3	
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

Notes

Note on application	For safe conductor connection, always adhere to a defined 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).

Dimensions

Dimensional drawing	h p
Pitch	2.54 mm
Width [w]	5.54 mm
Height [h]	12 mm
Length [I]	6.2 mm



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Installed height	8.5 mm	
Solder pin length [P]	3.5 mm	
Pin dimensions	0.5 x 0.9 mm	
PCB design		
Hole diameter	1.1 mm	

Mechanical tests

Test for conductor damage and slackening

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	0.14 mm² / solid / > 10 N
	0.14 mm² / flexible / > 10 N
	0.5 mm² / solid / > 20 N
	0.5 mm² / flexible / > 20 N

Electrical tests

Temperature-rise test

Specification

	1-2 222 11 11 11-21 2 1
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 60947-7-4:2019-01
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

IEC 60947-7-4:2019-01

Air clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	T .
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	63 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)	1.6 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)	1.5 mm
Rated insulation voltage (II/2)	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
nvironmental 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

Specification	IEC 60947-7-4:2019-01
Specification	1LC 00947-7-4.2019-01

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °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

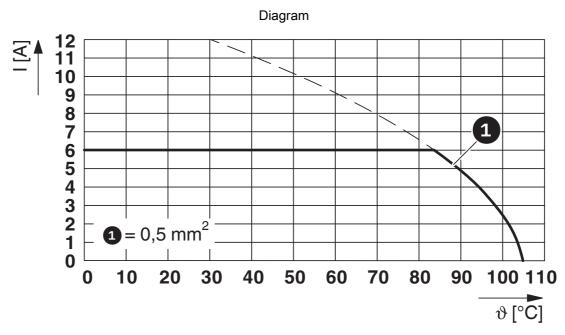
Packaging specifications



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Drawings



Type: MPT 0,5/...-2,54

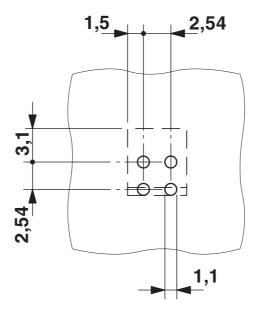
5,54 6,2 5,54 1,5 2,54



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Drilling plan/solder pad geometry



The 2 and 3-pos. versions have an additional locating pin (1.5 mm long) to support the mechanical load.



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1725656

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	125 V	6 A	28 - 20	-

CULus Recognized Approval ID: E60425-19770427				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	125 V	6 A	30 - 20	-

VDE approval of dr Approval ID: 40053682	rawings			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	160 V	6 A	-	0.14 - 0.5



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 9.0	EC002643
UNSPSC	

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	0.01 kg CO2e

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