

1865052

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PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 12 A, rated voltage (III/2): 400 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PT 1,5/..-PVH, pitch: 5 mm, connection method: Screw connection with wire protector, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PST 1,3, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · High terminal block capacity thanks to rectangular terminal block space
- · Allows connection of two conductors
- · Horizontal and vertical connection option for optimum conductor routing
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1865052
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Product key	AABAJB
GTIN	4055626399799
Weight per piece (including packing)	3.54 g
Weight per piece (excluding packing)	3.447 g
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	PT 1,5/PVH
Product line	COMBICON Connectors S
Number of positions	3
Pitch	5 mm
Number of connections	3
Number of rows	1
Number of potentials	3

Electrical properties

Properties

Nominal current I _N	12 A
Nominal voltage U _N	400 V
Contact resistance	1.3 mΩ
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	Plug for pin strip
Connector system	COMBICON PST 1,3
Nominal cross section	1.5 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting type	without

Conductor connection

Conductor connection	
Connection method	Screw connection with wire protector
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm ² 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	26 14
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²



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2 conductors with same cross section, solid	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.75 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm
Stripping length	5 mm
Drive form screw head	Slotted Phillips recess (H1L)
Tightening torque	0.35 Nm 0.4 Nm

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 (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

Material data - housing

Color (Housing)	black (9005)
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

Dimensions

Dimensional drawing	h
Pitch	5 mm
Width [w]	15 mm
Height [h]	11.3 mm
Length [I]	15 mm

Mechanical tests



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Specification Result full-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N
Pull-out test Specification Conductor cross-section/conductor type/tractive force	IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N
Specification Conductor cross-section/conductor type/tractive force	0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N
Conductor cross-section/conductor type/tractive force	0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N
	0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N
setpoint/actual value	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
nsertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	10
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	4 N
orque test	
Specification	IEC 60999-1:1999-11
tesistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
olarization and coding	
Specification	IEC 60512-7:1993-08 (Polarization)
Result	Test passed
isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
limension check	
Specification Result	IEC 60512-1-2:2002-02 Test passed

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:1995-03
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



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Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	4.9 kV
Contact resistance R ₁	$1.3\ m\Omega$
Contact resistance R ₂	1.4 mΩ
Insertion/withdrawal cycles	10

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.5 kV

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

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	16

Insulation resistance

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

Air clearances and creepage distances |

All clearances and creepage distances		
Specification	IEC 60664-1:2007-04	
Insulating material group	T 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	
Note on connection cross section	With connected conductor 2.5 mm² (solid).	
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	



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Packaging specifications

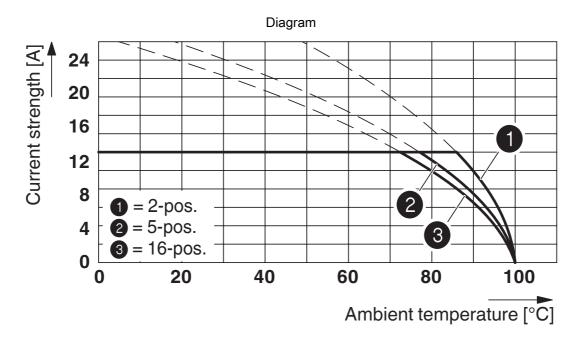
Type of packaging packed in cardboard



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Drawings



Type: PT 1,5/...-PVH-5,0 with PST 1,3/...-5,0



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1865052

cULus Recog	CULus Recognized Approval ID: E60425-20030211			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	15 A	26 - 12	-
D				
	300 V	10 A	26 - 12	-

	VDE approval of drawings Approval ID: 40055514				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		400 V	12 A	-	0.5 - 1.5



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Classifications

ECLASS

	ECLASS-13.0	27460202
	ECLASS-15.0	27460202
ET	TIM	
	ETIM 9.0	EC002638
UN	ISPSC	

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	0.049 kg CO2e

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