

2202345

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PCB connector, nominal cross section: 2.5 mm², color: light gray, nominal current: 16 A, rated voltage (III/2): 300 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: PSPT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0°, locking clip: - Locking clip, locking: without, mounting: without, type of packaging: packed in cardboard, Color of the spring lever: orange

Your advantages

- · Time saving push-in connection, tools not required
- · Variable coding, for reliable protection against incorrect connection
- · Quick and easily coded when initially connecting the connector and header
- · Intuitive operation due to color-coded actuating push button
- · Time saving push-in connection, tools not required

Commercial data

Item number	2202345
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AC08
Product key	ACHADB
GTIN	4055626058825
Weight per piece (including packing)	3.96 g
Weight per piece (excluding packing)	3.63 g
Customs tariff number	85366990
Country of origin	CN



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Technical data

Product properties

Product type	PCB connector
Product family	PSPT 2,5/ST
Туре	Standard
Number of positions	3
Pitch	5 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Data management status	
Article revision	01

Electrical properties

and the state of t	
Nominal current I _N	16 A
Nominal voltage U _N	300 V
Contact resistance	$1.5\ m\Omega$
Rated voltage (III/3)	300 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	300 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	600 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Nominal cross section	2.5 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0°
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm ² 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
2 conductors with same cross section, flexible, with ferrule	0.25 mm² 0.34 mm²



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without plastic sleeve	
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm
Stripping length	10 mm

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 (Sn)
Metal surface contact area (top layer)	Tin (Sn)

Material data - housing

Color (Housing)	light gray (7035)
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

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PBT
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	5 mm
Width [w]	14.95 mm
Height [h]	15 mm
Length [I]	21.3 mm



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Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load
Safety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	 WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	 WARNING: Only electrically qualified personnel may install an operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	 The item is intended to be an unencapsulated plug for installation in a housing.
	Operate the connector only when it is fully plugged in.

Mechanical tests

Insertion strength per pos. approx.

Conductor connection		
Specification	IEC 60999-1:1999-11	
Result	Test passed	
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		
Pull-out test Specification	IEC 60999-1:1999-11	
Specification Conductor cross section/conductor type/tractive force	IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N	
Specification		
Specification Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N	
Specification Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 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	
Specification Conductor cross section/conductor type/tractive force setpoint/actual value	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 setpoint/actual value Insertion and withdrawal forces	0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N	

13 N



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Ambient temperature (assembly)

Nithdraw strength per pos. approx.	8 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
olarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Specification	IEC 60068-2-6:2007-12
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
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	1.5 mΩ
Contact resistance R ₂	1.6 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 30 GΩ
imatic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	2.21 kV
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
	F 00 400 00

-5 °C ... 100 °C



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Electrical tests

Type of packaging

Specification	IEC 60512-5-1:2002-02
Tested number of positions	4
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 30 GΩ
emperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	IEC 60664-1:2007-04
•	
Insulating material group	1
Insulating material group Comparative tracking index (IEC 60112)	I CTI 600
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	I CTI 600 300 V
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	I CTI 600 300 V 4 kV
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	I CTI 600 300 V 4 kV 3 mm
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	I CTI 600 300 V 4 kV 3 mm 3.2 mm
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	I CTI 600 300 V 4 kV 3 mm 3.2 mm 300 V

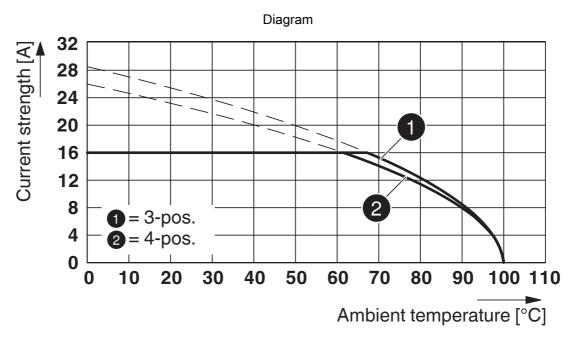
packed in cardboard



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Drawings



Type: PSPT 2,5/...-ST ... with ICC20(25)-H/...L(R)5,0-...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2202345

c 7/1 us	cULus Recognized Approval ID: E60425-19931012				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use grou	ір В				
		300 V	15 A	24 - 14	-

₩ DE	VDE Gutachten mit Fertigungsüberwachung Approval ID: 40044868				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		320 V	16 A	-	0.2 - 2.5



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Classifications

ECLASS

	ECLASS-11.0	27460202		
	ECLASS-12.0	27460202		
	ECLASS-13.0	27460202		
ET	ETIM			
	ETIM 9.0	EC002638		
	211111 0:0	25002500		
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%

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com