1826296

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: SMSTB 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -45 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · Angled conductor connection enables operation and conductor connection from one direction
- · Low temperature rise, thanks to maximum contact force

Commercial data

Item number	1826296
Packing unit	100 рс
Minimum order quantity	1 pc
Product key	AACAGL
Catalog page	Page 268 (C-1-2013)
GTIN	4017918122041
Weight per piece (including packing)	5.96 g
Weight per piece (excluding packing)	5.606 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Туре	Standard
Product line	COMBICON Connectors M
Product type	PCB connector
Product family	SMSTB 2,5/ST
Number of positions	3
Pitch	5.08 mm
Number of connections	3
Number of rows	1
Mounting flange	without
Number of potentials	3

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	2.3 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 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	Standard
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	-45 °
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	24 12
Conductor cross section flexible, with ferrule without plastic	0.25 mm ² 2.5 mm ²

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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² 1 mm ²
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
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	7 mm
Tightening torque	0.5 Nm 0.6 Nm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
erial specifications	
erial specifications aterial data - contact Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
erial specifications aterial data - contact	WEEE/RoHS-compliant, free of whiskers according to IEC
erial specifications aterial data - contact Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
erial specifications aterial data - contact Note Contact material	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy
erial specifications aterial data - contact Note Contact material Surface characteristics	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer)	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn)
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing)	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021)
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021)
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Aterial data - housing Color (Housing) Insulating material Insulating material group	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600
erial specifications aterial data - contact Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600 V0

Dimensions

Dimensional drawing



5.08 mm

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Width [w]	15.24 mm
Height [h]	15.5 mm
Length [I]	25.6 mm

Mounting

Drive form screw head	Slotted (L)
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)

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.
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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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
Torque test	
Specification	IEC 60999-1:1999-11
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

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Insulating material group

Comparative tracking index (IEC 60112)

Specification	IEC 60512-1-2:2002-02
Result	Test passed
vironmental and real-life conditions	
libration 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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Durability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	2.3 mΩ
Contact resistance R ₂	2.3 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
Climatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.21 kV
mbient 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
ctrical tests	
hermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Inculating motorial group	

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CTI 600

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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)	320 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

Packaging specifications

Type of packaging

packed in cardboard

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