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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: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: FKCN 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Extremely small design for the respective conductor cross section
- · Defined contact force ensures that contact remains stable over the long term
- · Can be combined with the MSTB 2,5 range

Commercial data

Item number	1732784
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AACFEA
Product key	AACFEA
Catalog page	Page 278 (C-1-2013)
GTIN	4046356163774
Weight per piece (including packing)	7.974 g
Weight per piece (excluding packing)	7.9 g
Customs tariff number	85366990
Country of origin	BG



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Technical data

Product properties

Product type	PCB connector
Product family	FKCN 2,5/ST
Product line	COMBICON Connectors M
Туре	Standard
Number of positions	6
Pitch	5 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Mounting flange	without

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	1.1 mΩ
Rated voltage (III/3)	320 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 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Conductor Connection	
Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm ² 1.5 mm ²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²



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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	10 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6

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)	green (6021)
Insulating material	PBT
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PA
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]	30 mm
Height [h]	10.9 mm
Length [I]	27.1 mm

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no
·	switching power (COC). During designated use, they must not be



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	plugged in or disconnected when carrying voltage or under load
echanical tests	
Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
	Test passed
Fest 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	
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
	1.5 mm² / solid / > 40 N
	2.5 mm² / flexible / > 50 N
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
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
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
vironmental and real-life conditions	
Vibration test	
Specification	IEC 60068-2-6:2007-12



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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
Durability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	1.1 mΩ
Contact resistance R ₂	1.1 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
and the state of t	
Ambient temperature (exerction)	40 °C 400 °C (dependent on the deseting curve)
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (storage/transport) Relative humidity (storage/transport) Ambient temperature (assembly)	-40 °C 70 °C 30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport) Ambient temperature (assembly) ectrical tests	30 % 70 %
Relative humidity (storage/transport) Ambient temperature (assembly) ctrical tests Thermal test Test group C	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport) Ambient temperature (assembly) ectrical tests Thermal test Test group C Specification	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport) Ambient temperature (assembly) ctrical tests Thermal test Test group C	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport) Ambient temperature (assembly) ectrical tests Thermal test Test group C Specification	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport) Ambient temperature (assembly) actrical tests Thermal test Test group C Specification Tested number of positions	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport) Ambient temperature (assembly) ctrical tests Thermal test Test group C Specification Tested number of positions nsulation resistance	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18
Relative humidity (storage/transport) Ambient temperature (assembly) actrical tests Thermal test Test group C Specification Tested number of positions Insulation resistance Specification	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02
Relative humidity (storage/transport) Ambient temperature (assembly) ctrical tests Thermal test Test group C Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02
Relative humidity (storage/transport) Ambient temperature (assembly) Actrical tests Thermal test Test group C Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 ΜΩ
Relative humidity (storage/transport) Ambient temperature (assembly) ctrical tests Thermal test Test group C Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04
Relative humidity (storage/transport) Ambient temperature (assembly) Actrical tests Thermal test Test group C Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 ΜΩ IEC 60664-1:2007-04
Relative humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Actrical tests Thermal test Test group C Specification Tested number of positions Assulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 ΜΩ IEC 60664-1:2007-04 I CTI 600
Relative humidity (storage/transport) Ambient temperature (assembly) Actrical tests Chermal test Test group C Specification Tested number of positions Assulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 ΜΩ IEC 60664-1:2007-04 I CTI 600 320 V
Relative humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Actrical tests Thermal test Test group C Specification Tested number of positions Assulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 ΜΩ IEC 60664-1:2007-04 I CTI 600 320 V 4 kV
Relative humidity (storage/transport) Ambient temperature (assembly) Actrical tests Chermal test Test group C Specification Tested number of positions Assulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification 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)	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 ΜΩ IEC 60664-1:2007-04 I CTI 600 320 V 4 kV 3 mm
Relative humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Actrical tests Thermal test Test group C Specification Tested number of positions Assulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum creepage distance (III/3) minimum creepage distance (III/3)	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 18 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 320 V 4 kV 3 mm 4 mm



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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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