1720929

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PCB headers, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PCV 5/..-GF, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

Your advantages

- · Well-known mounting principle allows worldwide use
- · Screwable flange for superior mechanical stability
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies

Commercial data

Item number	1720929
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADSBE
Catalog page	Page 539 (C-1-2013)
GTIN	4046356114042
Weight per piece (including packing)	13.78 g
Weight per piece (excluding packing)	12.4 g
Customs tariff number	85366930
Country of origin	PL



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Technical data

Product properties

Product type	PCB headers	
Product family	PCV 5/GF	
Product line	COMBICON Connectors L	
Туре	Standard	
Number of positions	4	
Pitch	7.62 mm	
Number of connections	4	
Number of rows	1	
Number of potentials	4	
Mounting flange	Threaded flange	
Pin layout	Linear pinning	
Solder pins per potential	3	

Electrical properties

Nominal current I _N	41 A
Nominal voltage U _N	630 V
Degree of pollution	3
Contact resistance	0.5 mΩ
Rated voltage (III/3)	630 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
lange	
Tightening torque	0.3 Nm 0.7 Nm
ttachment on the PCB	
Tightening torque	0.3 Nm
Screw	1705449 DFK-PC 16-SS

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

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Surface characteristics	hot-dip tin-plated
Metal surface contact area (top layer)	Tin (4 - 8 μm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 μm Sn)
Material data - housing	
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

 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.

Dimensions

Dimensional drawing



Pitch	7.62 mm
Width [w]	46.58 mm
Height [h]	34.25 mm
Length [I]	14.29 mm
Installed height	29.25 mm
Solder pin length [P]	5 mm
Pin dimensions	0.8 x 1 mm

PCB design

Pin spacing	7.62 mm
Hole diameter	1.3 mm

Mechanical tests

Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02

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Result	Test passed
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
Contact holder in insert	
Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	9 N
Withdraw strength per pos. approx.	5 N
Thermal test Test group C Specification	IEC 60512-5-1:2002-02
	IEC 60512-5-1:2002-02 12
Specification	
Specification Tested number of positions	
Specification Tested number of positions nsulation resistance	12
Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions	12 IEC 60512-3-1:2002-02
Specification Tested number of positions nsulation resistance Specification	12 IEC 60512-3-1:2002-02
Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances	12 IEC 60512-3-1:2002-02 > 5 MΩ
Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04
Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulation material group	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I
Specification Tested number of positions nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600
Specification Tested number of positions nsulation 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)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V
Specification Tested number of positions nsulation 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)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV
Specification Tested number of positions nsulation 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)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm
Specification Tested number of positions nsulation 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm 8 mm
Specification Tested number of positions nsulation 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm 8 mm 630 V 630 V
Specification Tested number of positions nsulation 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm 8 mm 630 V 6 kV 5.5 km 8 km 630 V 6 kV
Specification Tested number of positions nsulation 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm 8 mm 630 V 6 kV 5.5 mm 8 mm 630 V 5.5 mm
Specification Tested number of positions nsulation 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/2) minimum clearance value - non-homogenous field (III/2)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm 8 mm 630 V 6 kV 5.5 mm 5.5 mm 5.5 mm 5.5 mm 5.5 mm
Specification Tested number of positions nsulation 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated insulation voltage (III/2)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 630 V 6 kV 5.5 mm 8 mm 630 V 6 kV 5.5 mm 8 mm 630 V 6 kV 5.5 mm 8 mm 630 V 1000 V



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Environmental and real-life conditions

	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
rability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	7.3 kV
Contact resistance R ₁	0.5 mΩ
Contact resistance R ₂	0.5 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
natic test	
Specification	ISO 6988:1985-02
	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Corrosive stress	
Corrosive stress Thermal stress	105 °C/168 h
	105 °C/168 h 3.31 kV
Thermal stress	
Thermal stress Power-frequency withstand voltage	
Thermal stress Power-frequency withstand voltage bient conditions	3.31 kV
Thermal stress Power-frequency withstand voltage bient conditions Ambient temperature (operation)	3.31 kV -40 °C 105 °C (dependent on the derating curve)

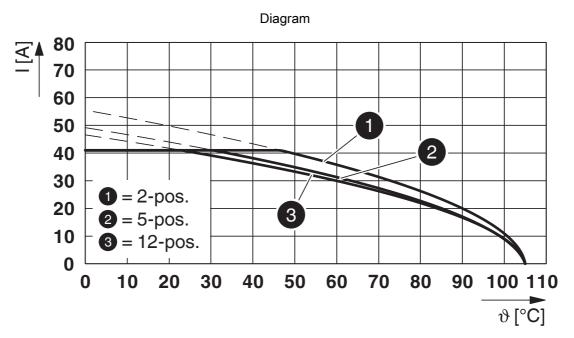
Type of packaging packed in cardboard



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Drawings



Type: PC 5/...-STF1-7,62 with PCV 5/...-GF-7,62



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1720929

Approval ID: E60425-19920722				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	41 A	-	-
Use group C				
	150 V	41 A	-	-
Use group D				
	600 V	5 A	-	-

UL Recognized Approval ID: E60425-19	UL Recognized Approval ID: E60425-19920722				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group F					
	600 V	41 A	-	-	



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Classifications

ECLASS

ECLASS-12.0 27460201 ECLASS-13.0 27460201	ECLASS-11.0	27460201
ECLASS-13.0 27460201	ECLASS-12.0	27460201
	ECLASS-13.0	27460201

ETIM

	ETIM 9.0	EC002637
U	NSPSC	
	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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Accessories

CP-PC RD - Coding profile

1701967 https://www.phoenixcontact.com/us/products/1701967

Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



DFK-PC 16-SS - Accessories

1705449 https://www.phoenixcontact.com/us/products/1705449



Screw set for DFK-PC 16... connectors

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SPC 5/ 4-STF-7,62 - PCB connector

1996142

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SPC 5/..-STF, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

TSPC 5/ 4-STF-7,62 - PCB connector

1728222 https://www.phoenixcontact.com/us/products/1728222



PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 8, product range: TSPC 5/..-STF, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

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PC 5/ 4-STF1-7,62 - PCB connector

1777859

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 5/..-STF1, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

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