

1341278

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PCB connector, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of rows: 2, number of positions: 10, product range: DD31PC 2,2/..., pitch: 3.81 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: CONNEXIS DD, locking: Snap-in locking, mounting method: Latching flange, type of packaging: packed in cardboard

Your advantages

- · Cost-effective connection of crimped conductors in large quantities
- · Small component size for applications where space is at a premium
- · Contacts arranged in a double row enable high packing density in a compact area
- · Intuitive locking mechanism prevents accidental disconnection
- · Tools for automatic crimping available as an option

Commercial data

Item number	1341278
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AABCUH
Product key	AABCUH
GTIN	4063151649920
Weight per piece (including packing)	5.5 g
Weight per piece (excluding packing)	5.751 g
Customs tariff number	85366990
Country of origin	CN



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Technical data

Product properties

Product type	PCB connector
Product family	DD31PC 2,2/
Product line	CONNEXIS Connectors S
Number of positions	10
Pitch	3.81 mm
Number of rows	2

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	5 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Interlock

Locking type	Snap-in locking
Mounting flange	Latching flange
Conductor connection	
Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section AWG	28 14
Stripping length	4.5 mm

Material specifications

Material data - contact

Metal surface contact area (top layer)	Tin (Sn)	
Material data - housing		
Color (Housing)	black (9005)	
Insulating material	PBT	
Insulating material group	II II	
CTI according to IEC 60112	400 ≤ CTI < 600	
Flammability rating according to UL 94	V0	



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Dimensions

Dimensional drawing	h
Pitch	3.81 mm
Width [w]	31.98 mm
Height [h]	12.23 mm
Length [I]	22.8 mm

Notes

Note on the contact	These connectors conform to DIN EN 61984, connectors without switching capacity (COC). When used for their intended purpose, they must not be plugged in or disconnected live or under load.
Note on application	All laboratory tests are performed in combination with the crimp contacts specified as accessories.
Note on application	The current depends on the crimp contact and conductor cross section used.
Note on application	The corresponding crimp contacts are to be found in the "Accessories" tab.

Mechanical tests

Result

Tensile strength of crimp connections

Conductor cross section/conductor type/tractive force setpoint/actual value	AWG 28 / flexible / > 11 N	
Insertion and withdrawal forces		
Specification	IEC 60512-13-2:2006-02	
Result	Test passed	
No. of cycles	25	
Insertion strength per pos. approx.	6 N	
Withdraw strength per pos. approx.	6 N	
Resistance of inscriptions		
Specification	IEC 60068-2-70:1995-12	
Result	Test passed	
Polarization and coding		

Test passed

Specification	IEC 60512-13-5:2006-02
Result	Test passed

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



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Dimension	check
	0

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

Vibration 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)
Acceleration	50 m/s² (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	5 mΩ
Contact resistance R ₂	5 mΩ
Contact resistance R ₂ 2nd level	5 mΩ
Insertion/withdrawal cycles	25

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 $\mathrm{dm^3/40~^\circ C/1}$ cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV

Ambient conditions

Ambient temperature (operation)	-55 °C 105 °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	20

Insulation 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



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Insulating material group	II .
Comparative tracking index (IEC 60112)	CTI ≥400 to <600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2.2 mm

Packaging specifications

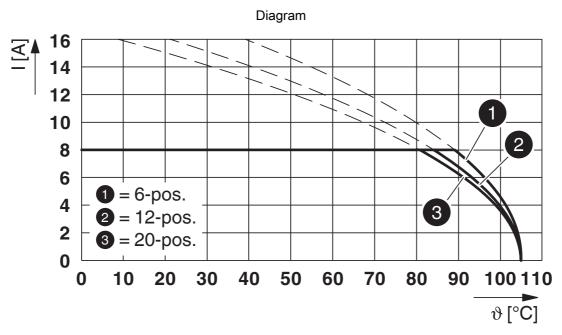
Type of packaging	packed in cardboard	



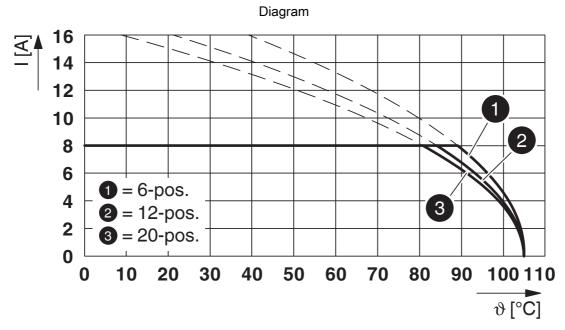
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Drawings



Type: DD31PC 2,2/...-3,81-Y with DD31H 2,2/...-H-3,81-Y



Type: DD31PC 2,2/...-3,81-Y with DD31H 2,2/...-V-3,81-Y



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1341278

7/	UL Recognized Approval ID: E118976-2	0240617			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 V	8.5 A	14	-



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Classifications

ECLASS

	ECLASS-13.0	27460202
ET	ГІМ	
	ETIM 9.0	EC002638



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
EU REACH SVHC	

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