

1340711

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PCB connector, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Pin, number of rows: 2, number of positions: 10, product range: DD31H 2,2/..-FH, pitch: 3.81 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, pin layout: Linear pinning, locking clip: - without locking clip, plug-in system: CONNEXIS DD, locking: Snap-in locking, mounting method: Engagement nose, 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	1340711
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABCUF
GTIN	4063151647773
Weight per piece (including packing)	8.45 g
Weight per piece (excluding packing)	9.084 g
Customs tariff number	85366990
Country of origin	CN



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### Technical data

### Product properties

Product type	PCB connector
Product family	DD31H 2,2/FH
Product line	CONNEXIS Connectors S
Number of positions	10
Pitch	3.81 mm
Number of rows	2
Pin layout	Linear pinning

### Electrical properties

#### Properties

•	
Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	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 type	Engagement nose
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
CTI according to IEC 60112	400 ≤ CTI < 600



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Flammability rating according to UL 94	V0
Dimensions	
Dimensional drawing	h w
Pitch	3.81 mm
Width [w]	33.19 mm
Height [h]	17.78 mm
Length [I]	33.6 mm
Mounting	
Pin layout	Linear pinning
lotes	
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.
lechanical tests	
Tensile strength of crimp connections	
Result	Test passed
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	
Specification	IEC 60512-13-5:2006-02



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Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
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 <sub>1</sub>	5 mΩ
Contact resistance R <sub>2</sub>	5 mΩ
Contact resistance R <sub>2</sub> 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 dm $^3$ /40 °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	



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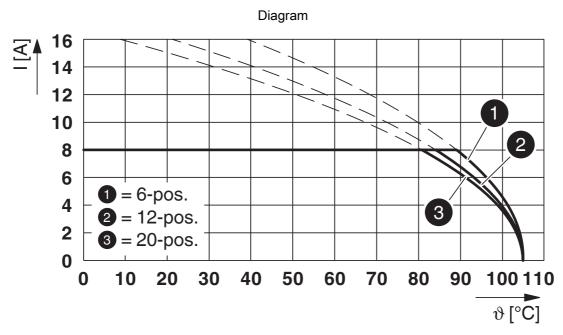
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
vir clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	
	TI ≥400 to <600
Comparative tracking index (IEC 60112)	
Rated insulation voltage (III/3)	160 V
Rated surge voltage (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
ckaging specifications	
Type of packaging	packed in cardboard



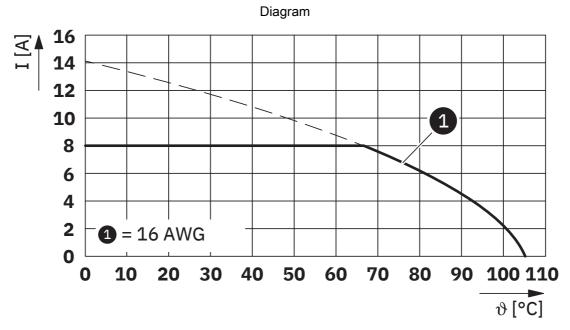
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### **Drawings**



Type: DD31PC 2,2/...-3,81-X with DD31H 2,2/...-FH-3,81-X



Type: DD31PS 1,5/...-3,81-X with DD31H 2,2/...-FH-3,81-X



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1340711

c <b>911</b> us	cULus Recognized Approval ID: E60425-20240617				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
Factor	ry wiring	150 V	8 A	24 - 16	-

<b>7.1</b>	<b>UL Recognized</b> Approval ID: E118976-2	<b>Recognized</b> oval ID: E118976-20240617			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		250 V	8.5 A	14	-



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27460202
	ECLASS-15.0	27460202
ET	TIM	
	ETIM 9.0	EC002638



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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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