

1718520

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 32 A, rated voltage (III/2): 1000 V, contact surface: Sn, contact connection type: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: SPC 5/..-STCL, 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: Clip locking, mounting method: Click & Lock latching slide, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Optimized for tight installation situations: operation and conductor connection from one direction
- The automatically locking Click and Lock system prevents accidental disconnection
- 600 V UL approval in the smallest of dimensions

Commercial data

Item number	1718520
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADFBF
GTIN	4046356175197
Weight per piece (including packing)	30.603 g
Weight per piece (excluding packing)	29.722 g
Customs tariff number	85366990
Country of origin	IN



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Technical data

Product properties

Product type	PCB connector
Product family	SPC 5/STCL
Product line	COMBICON Connectors L
Туре	Standard
Number of positions	6
Pitch	7.62 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Mounting type	Click & Lock latching slide

Electrical properties

Properties

Nominal current I_N 32 ANominal voltage U_N 1000 VContact resistance0.8 mΩRated voltage (III/3)1000 VRated surge voltage (III/3)8 kVRated voltage (III/2)1000 VRated voltage (III/2)8 kVRated voltage (III/2)8 kVRated voltage (III/2)6 kV	•	
Contact resistance 0.8 mΩ Rated voltage (III/3) 1000 V Rated surge voltage (III/3) 8 kV Rated voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV Rated voltage (III/2) 1000 V	Nominal current I _N	32 A
Rated voltage (III/3) Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 1000 V	Nominal voltage U _N	1000 V
Rated surge voltage (III/3) Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 8 kV Rated voltage (III/2) 1000 V	Contact resistance	$0.8~\text{m}\Omega$
Rated voltage (III/2) Rated surge voltage (III/2) Rated voltage (III/2) 1000 V 1000 V	Rated voltage (III/3)	1000 V
Rated surge voltage (III/2) 8 kV Rated voltage (II/2) 1000 V	Rated surge voltage (III/3)	8 kV
Rated voltage (II/2) 1000 V	Rated voltage (III/2)	1000 V
	Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2) 6 kV	Rated voltage (II/2)	1000 V
	Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	Standard
Connector system	COMBICON PC 5
Nominal cross section	6 mm²
Contact connection type	Socket

Interlock

Locking type	Clip locking
Mounting type	Click & Lock latching slide

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm² 10 mm²
Conductor cross-section flexible	0.2 mm² 6 mm²
Conductor cross-section AWG	24 8



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Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 4.0 mm
Stripping length	15 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
	1213144 CRIMPFOX CENTRUS 6S
	1213146 CRIMPFOX CENTRUS 6H
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.5 mm²; Length: 10 mm 15 mm
	Cross section: 0.75 mm²; Length: 10 mm 15 mm
	Cross section: 1 mm²; Length: 10 mm 15 mm
	Cross section: 1.5 mm²; Length: 12 mm 15 mm
	Cross section: 2.5 mm²; Length: 12 mm 15 mm
	Cross section: 4 mm²; Length: 12 mm 15 mm
	Cross section: 6 mm²; Length: 12 mm 15 mm
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
	1213144 CRIMPFOX CENTRUS 6S
	1213146 CRIMPFOX CENTRUS 6H
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.5 mm²; Length: 10 mm 15 mm
	Cross section: 0.75 mm²; Length: 12 mm 15 mm
	Cross section: 1 mm²; Length: 12 mm 15 mm
	Cross section: 1.5 mm²; Length: 12 mm 15 mm
	Cross section: 2.5 mm²; Length: 12 mm 15 mm
	Cross section: 4 mm²; Length: 12 mm 15 mm

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	PA
Insulating material group	T I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0



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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
aterial 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
nensions	
Dimensional drawing	h
Pitch	7.62 mm
Width [w]	53.72 mm
Height [h]	19.8 mm
Length [I]	38.45 mm
es	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have n switching power (COC). During designated use, they must not plugged in or disconnected when carrying voltage or under load
onductor connection	IFC 60999-1·1999-11
onductor connection Specification	IEC 60999-1:1999-11 Test passed
onductor connection Specification Result	IEC 60999-1:1999-11 Test passed
onductor connection Specification Result est for conductor damage and slackening	Test passed
onductor connection Specification Result est for conductor damage and slackening Specification	Test passed IEC 60999-1:1999-11
onductor connection Specification Result est for conductor damage and slackening	Test passed
Specification Result est for conductor damage and slackening Specification Result	Test passed IEC 60999-1:1999-11
Specification Result est for conductor damage and slackening Specification Result	Test passed IEC 60999-1:1999-11
onductor connection Specification Result est for conductor damage and slackening Specification Result epeated connection and disconnection	Test passed IEC 60999-1:1999-11 Test passed
onductor connection Specification Result est for conductor damage and slackening Specification Result epeated connection and disconnection Specification Result	Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11
onductor connection Specification Result est for conductor damage and slackening Specification Result epeated connection and disconnection Specification Result	Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11
Result est for conductor damage and slackening Specification Result epeated connection and disconnection Specification Result ull-out test	Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed



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	10 mm² / solid / > 90 N
	6 mm² / flexible / > 80 N
nsertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	50
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	
Polarization and coding Specification	IEC 60512-13-5:2006-02
Result	Test passed
roout	ι σει μασσου
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Charification	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Result vironmental and real-life conditions /ibration test Specification Frequency	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz
Result vironmental and real-life conditions Vibration test Specification Frequency Sweep speed	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz)
Result vironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz)
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 7.3 kV
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 7.3 kV 0.8 mΩ
Result vironmental and real-life conditions vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 7.3 kV 0.8 mΩ 0.8 mΩ
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 7.3 kV 0.8 mΩ 0.8 mΩ 50
Result vironmental and real-life conditions /ibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 7.3 kV 0.8 mΩ 0.8 mΩ 50
Vironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 7.3 kV 0.8 mΩ 0.8 mΩ 50 > 5 MΩ



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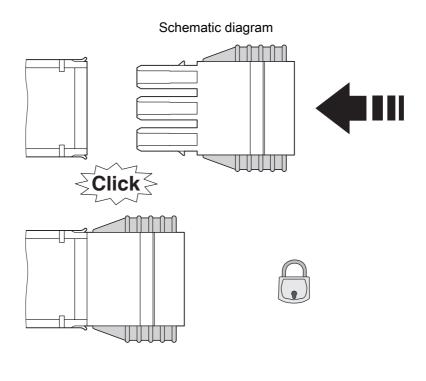
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	3.31 kV
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
trical tests	
ermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
mperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
clearances and creepage distances	
	IEC 60664-1:2007-04
clearances and creepage distances	IEC 60664-1:2007-04
clearances and creepage distances Specification	
clearances and creepage distances Specification Insulating material group	I
clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	CTI 600
clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	I CTI 600 1000 V
clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	I CTI 600 1000 V 8 kV
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)	I CTI 600 1000 V 8 kV 8 mm
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) minimum creepage distance (III/3)	I CTI 600 1000 V 8 kV 8 mm 12.5 mm
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) minimum creepage distance (III/3) Rated insulation voltage (III/2)	I CTI 600 1000 V 8 kV 8 mm 12.5 mm 1000 V
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) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	I CTI 600 1000 V 8 kV 8 mm 12.5 mm 1000 V 8 kV
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) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2)	I CTI 600 1000 V 8 kV 8 mm 12.5 mm 1000 V 8 kV
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) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2)	I CTI 600 1000 V 8 kV 8 mm 12.5 mm 1000 V 8 kV 8 mm 1 mm
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) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (III/2) Rated insulation voltage (III/2)	I CTI 600 1000 V 8 kV 8 mm 12.5 mm 1000 V 8 kV 8 mm 1000 V

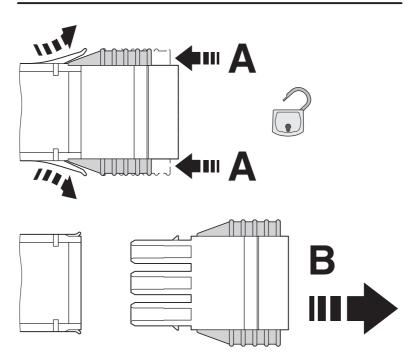
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Drawings



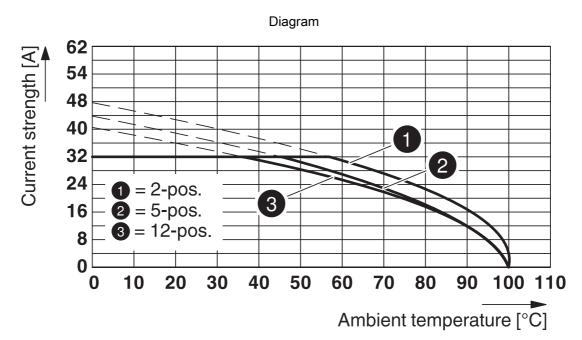


Click and Lock system method of operation

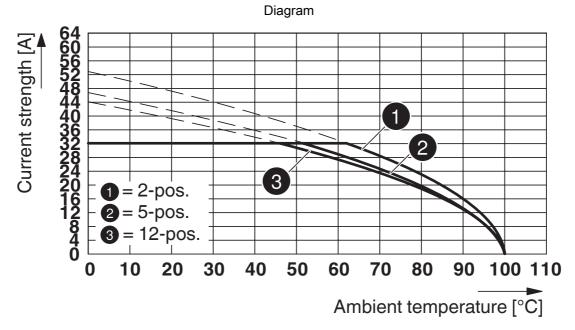


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Type: SPC 5/...-STCL-7,62 with PC 5/...-GSF-7,62

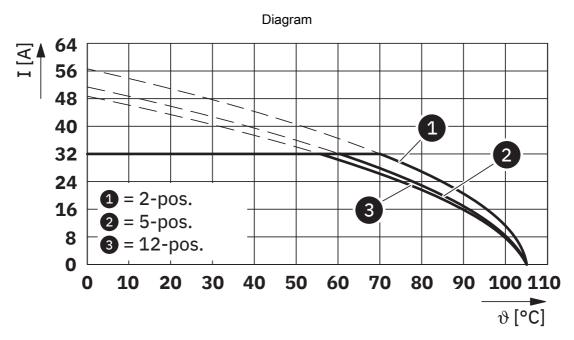


Type: SPC 5/...-STCL-7,62 with ISPC 5/...-STGCL-7,62

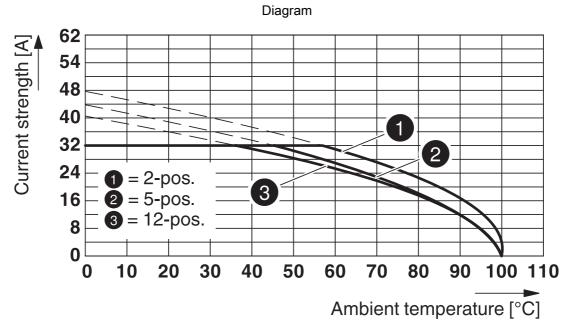


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Type: SPC 5/...-STCL-7,62 with IPC 5/...-STGCL-7,62



Type: SPC 5/...-STCL-7,62 with PC 5/...-GU-7,62



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1718520

CULus Recognized Approval ID: E60425-19920722				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	600 V	35 A	24 - 8	-
С				
	600 V	35 A	24 - 8	-



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27460202			
	ECLASS-15.0	27460202			
ETIM					
	ETIM 9.0	EC002638			
UN	ISPSC				

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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com