

1012281

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PCB connector, nominal cross section: 0.75 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Au, contact connection type: Socket, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: MCC 0,5/..-ST, pitch: 2.54 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON FMC 0,5, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Cost-effective connection of crimped conductors in large quantities
- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Small component size for applications where space is at a premium
- · Tools for manual and automatic crimping available as an option

Commercial data

Item number	1012281
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AAACAA
Product key	AAACAA
GTIN	4055626489223
Weight per piece (including packing)	1.779 g
Weight per piece (excluding packing)	1.7 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	MCC 0,5/ST
Product line	COMBICON Connectors XS
Number of positions	15
Pitch	2.54 mm
Number of connections	15
Number of rows	1
Number of potentials	15

Electrical properties

Properties

Nominal current I _N	6 A
Nominal voltage U _N	160 V
Contact resistance	2.1 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

Connection technology

Туре	Standard
Connector system	COMBICON FMC 0,5
Nominal cross section	0.75 mm²
Contact connection type	Socket

Interlock

monosk	
Locking type	without
Mounting flange	without

Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.14 mm ² 0.75 mm ² (Maximum external diameter of the insulation 1.9 mm)
Conductor cross section AWG	26 18 (Maximum external diameter of the insulation 1.9 mm)
Stripping length	4.1 mm 4.5 mm

Material specifications



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Material data - housing

Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	1
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

Dimensions

Dimensional drawing	h
Pitch	2.54 mm
Width [w]	38.6 mm
Height [h]	3.95 mm
Length [I]	16 mm

Notes

Note on the contact	The information on the basic material and the finish properties of the crimp contacts is to be found in the E-Shop in the technical data for the respective crimp contact.
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.
Note on application	The crimp contacts may only be processed with approved crimping tools.

Mechanical tests

Result

No. of cycles

Tensile strength of crimp connections

Tensile strength of online connections	
Result	Test passed
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / flexible / > 18 N
Insertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02

Test passed

100



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nsertion strength per pos. approx.	2 N
/ithdraw strength per pos. approx.	3 N
esistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
plarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
sual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
	. 550, passou
mension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
bration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 500 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 500 Hz)
Test duration per axis	2 h
Test directions	X-, Y- and Z-axis
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	2.1 mΩ
Contact resistance R ₂	2.1 mΩ
Insertion/withdrawal cycles	100
Insertion/withdrawal cycles Insulation resistance, neighboring positions	100 > 5 MΩ
Insulation resistance, neighboring positions	
Insulation resistance, neighboring positions	> 5 MΩ
Insulation resistance, neighboring positions imatic test Specification	> 5 MΩ DIN 50018:2013-05
Insulation resistance, neighboring positions imatic test Specification Corrosive stress	> 5 MΩ DIN 50018:2013-05 1.0 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Insulation resistance, neighboring positions imatic test Specification Corrosive stress Thermal stress	> 5 MΩ DIN 50018:2013-05 1.0 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle 105 °C/168 h
Insulation resistance, neighboring positions imatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	> 5 MΩ DIN 50018:2013-05 1.0 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle 105 °C/168 h
Insulation resistance, neighboring positions imatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	> 5 MΩ DIN 50018:2013-05 1.0 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 105 °C/168 h 1.39 kV



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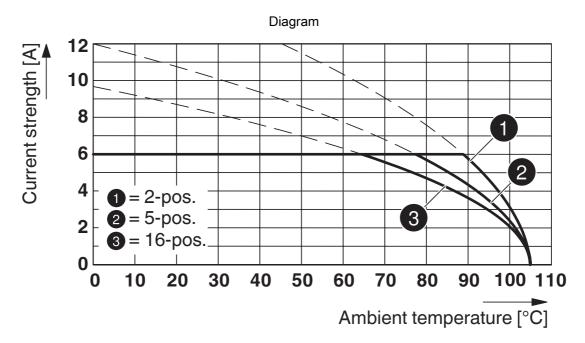
Ambient temperature (assembly)	-5 °C 100 °C
Electrical tests	
Electrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 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 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)	0.8 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)	1.6 mm
Packaging specifications	
Type of packaging	packed in cardboard



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Drawings



Type: MCC 0,5/...-ST-2,54 with MC 0,5/...-G-2,54 P20 THR R...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1012281

CULus Recognized Approval ID: E60425-20110128					
	Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	150 V	6 A	26 - 18	-	
Use group D					
	150 V	6 A	26 - 18	-	

√DE	VDE report with production monitoring Approval ID: 40042258					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		160 V	6 A	-	0.14 - 0.75	



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Classifications

	ECLASS-13.0	27460202	
ETIM			
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	ETIM 9.0	EC002638	
UNSPSC			
	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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