

1012272

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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: 8, number of rows: 1, number of positions: 8, number of connections: 8, 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	1012272
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AA01
Product key	AAACAA
GTIN	4055626487984
Weight per piece (including packing)	0.976 g
Weight per piece (excluding packing)	0.9 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	8
Pitch	2.54 mm
Number of connections	8
Number of rows	1
Number of potentials	8

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

meneok	
Locking type	without
Mounting type	without

Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross-section flexible	$0.14\ mm^2\ldots 0.75\ mm^2$ (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 - contact

Metal surface contact area (top layer)	Gold (Au)
Material data - housing	
Color (Housing)	black (9005)
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

Dimensions

Dimensional drawing	h
Pitch	2.54 mm
Width [w]	20.82 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.
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.

Mechanical tests

Tensile strength of crimp connections

Result	Test passed
Conductor cross-section/conductor type/tractive force	0.14 mm² / flexible / > 18 N



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setpoint/actual value



IEC 60512-13-2:2006-02
Test passed
100
2 N
3 N
IEC 60068-2-70:1995-12
Test passed
IEC 60512-13-5:2006-02
Test passed
IEC 60512-1-1:2002-02
Test passed
IEC 60512-1-2:2002-02
IEC 60512-1-2:2002-02 Test passed
Test passed
Test passed IEC 60068-2-6:2007-12
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz)
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz)
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis IEC 60512-9-1:2010-03
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ 2.1 mΩ
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ 100
Test passed IEC 60068-2-6:2007-12 10 - 500 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ 100



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Packaging specifications

Type of packaging

wer-frequency withstand voltage	1.39 kV
pient 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
rical tests	
inda toto	
ermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
ulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Opcomodio!!	
Insulating material group	1
Insulating material group	1
Insulating material group Comparative tracking index (IEC 60112)	I CTI 600
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	I CTI 600 160 V
Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	I CTI 600 160 V 2.5 kV
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 600 160 V 2.5 kV 1.5 mm
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 600 160 V 2.5 kV 1.5 mm 2 mm
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 600 160 V 2.5 kV 1.5 mm 2 mm 160 V
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 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV
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 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV 1.5 mm
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 clearance value - non-homogenous field (III/2) minimum creepage distance (III/2)	I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV 1.5 mm 0.8 mm
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 clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (III/2)	I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV 1.5 mm 0.8 mm 320 V

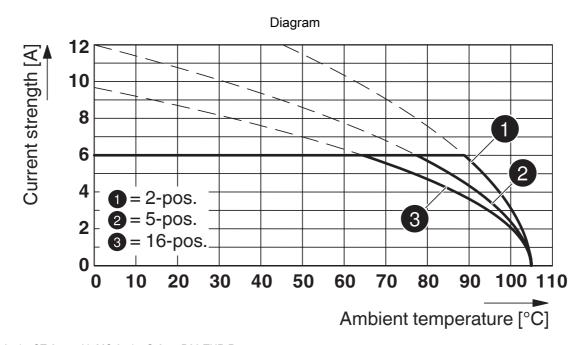
packed in cardboard



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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/us/products/1012272

c 911 us	cULus Recognized Approval ID: E60425-20110128				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		150 V	6 A	26 - 18	-
D					
		150 V	6 A	26 - 18	-

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



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Classifications

ECLASS

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
	-1h <i>a</i>		
ETIM			
	ETIM 9.0	EC002638	
UNSPSC			
	UNSPSC 21.0	39121400	



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Environmental product compliance

EU RoHS

20 1.0.1.0				
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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