

1852176

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PCB connector, nominal cross section: 1 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MCC 1/..-STZ, pitch: 3.81 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting method: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross-section range [mm²] data: 5A/MCC-MT 0,2-0,35 (1859988); 8A/MCC-MT 0,5-1,0 (1859991)

### Your advantages

· Inexpensive connection of large quantities of preassembled conductors

#### Commercial data

Item number	1852176
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABCAA
GTIN	4017918109059
Weight per piece (including packing)	0.73 g
Weight per piece (excluding packing)	0.53 g
Customs tariff number	85389099
Country of origin	PL



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### Technical data

## Product properties

Product type	PCB connector
Product family	MCC 1/STZ
Product line	COMBICON Connectors S
Туре	Standard
Number of positions	2
Pitch	3.81 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting type	without

### Electrical properties

#### **Properties**

Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	160 V
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 MC 1,5
Nominal cross section	1 mm²
Contact connection type	Socket

#### Interlock

Locking type	without
Mounting type	without

### Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0°
Conductor cross-section flexible	0.2 mm² 1 mm²
Conductor cross-section AWG	24 18

### Material specifications



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#### Material data - housing

Color (Housing)	green (6021)
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	3.81 mm
Width [w]	8.41 mm
Height [h]	8.7 mm
Length [I]	23.1 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 power (COC). When used for their intended purpose, they must not be plugged in or disconnected live or under load.

### Environmental and real-life conditions

### Ambient 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



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### Electrical tests

#### Air clearances and creepage distances |

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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)	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)	1.6 mm

### Packaging specifications

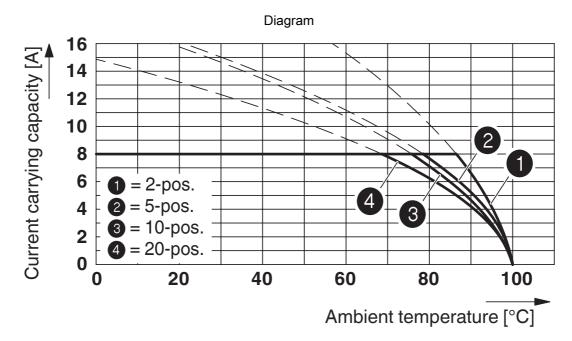
Type of packaging	packed in cardboard
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## Drawings



Type: MCC 1/...-ST-3,81 with MC 1,5/...-G-3,81; contact: MCC-MT 0,5 - 1,0



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## **Approvals**

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cULus Recog Approval ID: E60	cULus Recognized Approval ID: E60425-20110128				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
В					
	300 V	5 A	24 - 22	-	
D					
	300 V	5 A	24 - 22	-	



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27460202				
	ECLASS-15.0	27460202				
ETIM						
	ETIM 9.0	EC002638				
UNSPSC						
	UNSPSC 21.0	39121400				



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## Environmental product compliance

#### EU RoHS

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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%	
EF3.0 Climate Change		
CO2e kg	0.024 kg CO2e	

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