

2896458

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DIN rail bus connector, color: black, nominal current: 3 A (Total current of 25 A max.), rated voltage (III/2): 30 V, number of positions: 16, product range: BC 53,6.., pitch: 2.54 mm, mounting: DIN rail mounting, locking: without

### Your advantages

- · Space-saving installation under the housing in the DIN rail
- · Fast module-to-module communication without additional wiring effort
- · One DIN rail connector for each overall width

#### Commercial data

Item number	2896458
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AC10
Product key	ACHBBA
GTIN	4046356103176
Weight per piece (including packing)	16.4 g
Weight per piece (excluding packing)	15.53 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

### Product properties

Product type	DIN rail bus connector
Product family	BC 53,6
Number of positions	16
Pitch	2.54 mm

### Electrical properties

#### Properties

Nominal current I <sub>N</sub>	3 A (Total current of 25 A max.)
Contact resistance	23.9 mΩ
Rated voltage (III/3)	30 V
Rated surge voltage (III/3)	0.8 kV
Rated voltage (III/2)	30 V
Rated surge voltage (III/2)	0.8 kV
Rated voltage (II/2)	100 V
Rated surge voltage (II/2)	0.8 kV

#### Connection data

Maximum load current	3 A (maximum total current 23 A)
Maximum load carront	o / (maximam total carrent 20 / t)

### Material specifications

#### Material data - contact

Contact material	Cu alloy
Surface characteristics	Completely gold-plated
Material data - housing	
Color (Housing)	black (9005)

C	olor (nousing)	black (9005)
In	nsulating material	PA
In	nsulating material group	1
С	TI according to IEC 60112	600
F	lammability rating according to UL 94	V0

### material specifications - connector

Color ()	0
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### Dimensions

Pitch	2.54 mm
Width [w]	53.6 mm
Height [h]	13.6 mm
Length [I]	37.1 mm

### Mounting



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Mounting type	DIN rail mounting
chanical tests	
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
vironmental and real-life conditions	
vironinental and real-life conditions	
/ibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz 58.1 Hz)
Acceleration	20 m/s²
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis (pos. and neg.)
Ourability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	0.91 kV
Contact resistance R <sub>1</sub>	23.9 mΩ
Contact resistance R <sub>2</sub>	24 mΩ
Insertion/withdrawal cycles	25
Climatic test	
Specification	DIN 50018:2013-05
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	0.55 kV
Glow-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
	30 s
Time of exposure	30.5
Shocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	150 m/s²
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)



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#### Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	80 %
Ambient temperature (assembly)	-5 °C 100 °C

### Electrical tests

#### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Rated insulation voltage (III/3)	30 V
Rated surge voltage (III/3)	0.8 kV
minimum clearance value - non-homogenous field (III/3)	0.8 mm
minimum creepage distance (III/3)	1.3 mm
Rated insulation voltage (III/2)	30 V
Rated surge voltage (III/2)	0.8 kV
minimum clearance value - non-homogenous field (III/2)	0.2 mm
minimum creepage distance (III/2)	0.53 mm
Rated insulation voltage (II/2)	100 V
Rated surge voltage (II/2)	0.8 kV
minimum clearance value - non-homogenous field (II/2)	0.2 mm
minimum creepage distance (II/2)	0.71 mm

### Packaging specifications

Outer packaging type	Carton



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## **Approvals**

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e <b>911</b> us	cULus Recogniz Approval ID: E118976	CULus Recognized Approval ID: E118976-20090923			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		30 V	2 A	-	-



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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

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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