

2278555

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DIN rail 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 161,6.., 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	2278555
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AC10
Product key	ACHBBA
Catalog page	Page 702 (C-1-2013)
GTIN	4046356299442
Weight per piece (including packing)	42.32 g
Weight per piece (excluding packing)	39.8 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

#### Product properties

Product type	DIN rail connector	
Product family	BC 161,6	
Number of positions	16	
Pitch	2.54 mm	
Data management status		
Article revision	02	

#### Electrical 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

### Material specifications

#### Material data - contact

Contact material	Cu alloy
Surface characteristics	Completely gold-plated
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

#### material specifications - connector

Color ()	()
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#### **Dimensions**

Pitch	2.54 mm
Width [w]	161.6 mm
Height [h]	13.6 mm
Length [I]	37.1 mm



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Mounting	
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	Mounting type	DIN rail mounting	
Мє	Mechanical tests		
,	Visual inspection		
	Specification	IEC 60512-1-1:2002-02	
	Result	Test passed	
Dimension check			
	Specification	IEC 60512-1-2:2002-02	
	Result	Test passed	

#### Environmental and real-life conditions

#### Vibration 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.)

#### Durability 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	$0.2~\mathrm{dm^3SO_2}$ on 300 dm³/40 °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
Time of exposure	30 s

#### Shocks

Ondice		
Specification	IEC 60068-2-27:2008-02	
Pulse shape	Semi-sinusoidal	
Acceleration	150 m/s²	
Shock duration	11 ms	



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Test directions	X-, Y- and Z-axis (pos. and neg.)			
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	1
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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c <b>711</b> vs	cULus Recognized Approval ID: E118976-20090923				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	-	-



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27460202			
	ECLASS-12.0	27460202			
	ECLASS-13.0	27460202			
ET	ETIM				
	ETIM 9.0	EC002638			
UNSPSC					
	UNSPSC 21.0	39121400			



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### Environmental product compliance

#### EU RoHS

20 1.01.0				
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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