

HBUS 53,6-16P-3S BK - DIN rail bus connector



2896322

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RAIL



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	2896322
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	ACHBBA
GTIN	4046356096775
Weight per piece (including packing)	18.17 g
Weight per piece (excluding packing)	18.17 g
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_N	3 A (Total current of 25 A max.)
Contact resistance	23.9 m Ω
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)
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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	I
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]	53.6 mm
Height [h]	13.6 mm
Length [l]	37.1 mm

Mounting

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Mounting type	DIN rail mounting
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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

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	0.91 kV
Contact resistance R_1	23.9 m Ω
Contact resistance R_2	24 m Ω
Insertion/withdrawal cycles	25

Climatic test

Specification	DIN 50018:2013-05
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	0.55 kV

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/s ²
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis (pos. and neg.)

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	150 m/s ²
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	30 s

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Ambient conditions

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

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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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 cULus Recognized Approval ID: E118976-20090923				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	2 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27460202
ECLASS-15.0	27460202

ETIM

ETIM 10.0	EC002638
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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