HBUS 53,6-16P-1S BK - DIN rail bus connectors

2896458

https://www.phoenixcontact.com/us/products/2896458

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, 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
Catalog page	Page 702 (C-1-2013)
GTIN	4046356103176
Weight per piece (including packing)	16.32 g
Weight per piece (excluding packing)	15.53 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Product properties

Product type	DIN rail connector
Product family	HBUS16
Number of positions	16
Pitch	2.54 mm

Electrical properties

Nominal current I_N	3 A (Total current of 25 A max.)
Degree of pollution	3
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)

Dimensions

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

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

Connector

Connection 1

Insulating material	PA

CTI according to IEC 60112	600

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

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)
Sweep speed	20 m/s²
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	0.91 kV
Contact resistance R_1	23.9 mΩ
Contact resistance R_2	24 mΩ
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

Glow-wire test

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

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.)

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

Mounting

Mounting type	DIN rail mounting

Packaging specifications

Outer packaging type	Carton

Classifications

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

ETIM

ETIM 9.0	EC002638

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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