

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 107,6.., 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	2202876
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AC10
Product key	ACHBBA
GTIN	4055626244303
Weight per piece (including packing)	28.2 g
Weight per piece (excluding packing)	26.8 g
Customs tariff number	85366990
Country of origin	DE

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



## Technical data

### Product properties

Product type	DIN rail bus connector
Product family	BC 107,6..
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 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

### 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 ()	()
----------	----

### Dimensions

Pitch	2.54 mm
Width [w]	112.45 mm
Height [h]	13.55 mm
Length [l]	37.1 mm

### Mounting

Mounting type	DIN rail mounting
---------------	-------------------

### Mechanical tests

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



## 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/s <sup>2</sup>
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 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
Time of exposure	30 s

### Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	150 m/s <sup>2</sup>
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

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



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
----------------------	--------

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2202876>

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	-	-

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



## Classifications

### ECLASS

ECLASS-13.0	27460202
ECLASS-15.0	27460202

### ETIM

ETIM 9.0	EC002638
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# HBUS 107,6-16P-1S BK P1 - DIN rail bus connector

2202876

<https://www.phoenixcontact.com/us/products/2202876>



## 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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)