

HBUS8 161,6-8P-1S BK - DIN rail bus connectors



1249066

<https://www.phoenixcontact.com/us/products/1249066>

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 connector, color: black, nominal current: 3 A (per contact), rated voltage (III/2): 100 V, number of positions: 8, 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	1249066
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	ACHBBA
GTIN	4063151352981
Weight per piece (including packing)	32.48 g
Weight per piece (excluding packing)	30 g
Country of origin	CN

HBUS8 161,6-8P-1S BK - DIN rail bus connectors



1249066

<https://www.phoenixcontact.com/us/products/1249066>

Technical data

Product properties

Product type	DIN rail connector
Product family	HBUS8
Number of positions	8
Pitch	2.54 mm

Electrical properties

Nominal current I_N	3 A (per contact)
Degree of pollution	3
Contact resistance	35.7 mΩ
Rated voltage (III/3)	60 V
Rated surge voltage (III/3)	1.5 kV
Rated voltage (III/2)	100 V
Rated surge voltage (III/2)	1.5 kV
Rated voltage (II/2)	150 V
Rated surge voltage (II/2)	1.5 kV

Connection data

Maximum load current	3 A
----------------------	-----

Dimensions

Pitch	2.54 mm
Width [w]	165.23 mm
Height [h]	13.54 mm
Length [l]	36.82 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
---------------------	----

1249066

<https://www.phoenixcontact.com/us/products/1249066>

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)	60 V
Rated surge voltage (III/3)	1.5 kV
minimum clearance value - non-homogenous field (III/3)	0.8 mm
minimum creepage distance (III/3)	1.6 mm
Rated insulation voltage (III/2)	100 V
Rated surge voltage (III/2)	1.5 kV
minimum clearance value - non-homogenous field (III/2)	0.5 mm
minimum creepage distance (III/2)	0.71 mm
Rated insulation voltage (II/2)	150 V
Rated surge voltage (II/2)	1.5 kV
minimum clearance value - non-homogenous field (II/2)	0.5 mm
minimum creepage distance (II/2)	0.8 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/s ²
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	1.75 kV
Contact resistance R ₁	35.7 mΩ
Contact resistance R ₂	35.7 mΩ
Insertion/withdrawal cycles	25

HBUS8 161,6-8P-1S BK - DIN rail bus connectors



1249066

<https://www.phoenixcontact.com/us/products/1249066>

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	0.84 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 ²
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
----------------------	--------

HBUS8 161,6-8P-1S BK - DIN rail bus connectors



1249066

<https://www.phoenixcontact.com/us/products/1249066>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

HBUS8 161,6-8P-1S BK - DIN rail bus connectors



1249066

<https://www.phoenixcontact.com/us/products/1249066>

Environmental product compliance

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

Phoenix Contact 2024 © - 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