

TBUS8-20-BRIDGE-7035 - DIN rail bus connector



1387011

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DIN rail bus adapter for ICS, overall width: 20 mm, 8 parallel positions, color: light gray (similar to RAL 7035)



Your advantages

- Can be integrated into device applications based on ME-IO and ICS housings
- Increased maximum PCB surface
- Connection of the positions in the field with FMC connectors

Commercial data

Item number	1387011
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AC09
Product key	ACHAGA
GTIN	4063151763848
Weight per piece (including packing)	5.48 g
Weight per piece (excluding packing)	3.87 g
Customs tariff number	85389099
Country of origin	PL

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Technical data

Product properties

Product type	DIN rail bus connector
Product family	TBUS8-20..
Number of positions	8
Pitch	2.54 mm
Number of connections	8

Electrical properties

Properties

Nominal current I_N	6 A (parallel contacts)
Nominal voltage U_N	32 V
Contact resistance	3.91 mΩ
Rated voltage (III/3)	32 V
Rated surge voltage (III/3)	1.5 kV
Rated voltage (III/2)	32 V
Rated surge voltage (III/2)	1.5 kV
Rated voltage (II/2)	32 V
Rated surge voltage (II/2)	1.5 kV

Material specifications

Material data - contact

Contact material	Cu alloy
Surface characteristics	gold-plated

Material data - housing

Color (Housing)	light gray (7035)
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]	24.3 mm
Height [h]	37.25 mm
Length [l]	11.3 mm

Mounting

Mounting type	DIN rail mounting
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Mechanical tests

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	2.76 N
Withdraw strength per pos. approx.	2.28 N

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	1.75 kV
Contact resistance R_1	3.91 mΩ
Contact resistance R_2	4.51 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	105 °C/168 h
Power-frequency withstand voltage	0.84 kV

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
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	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

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Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 55 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)

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Electrical tests

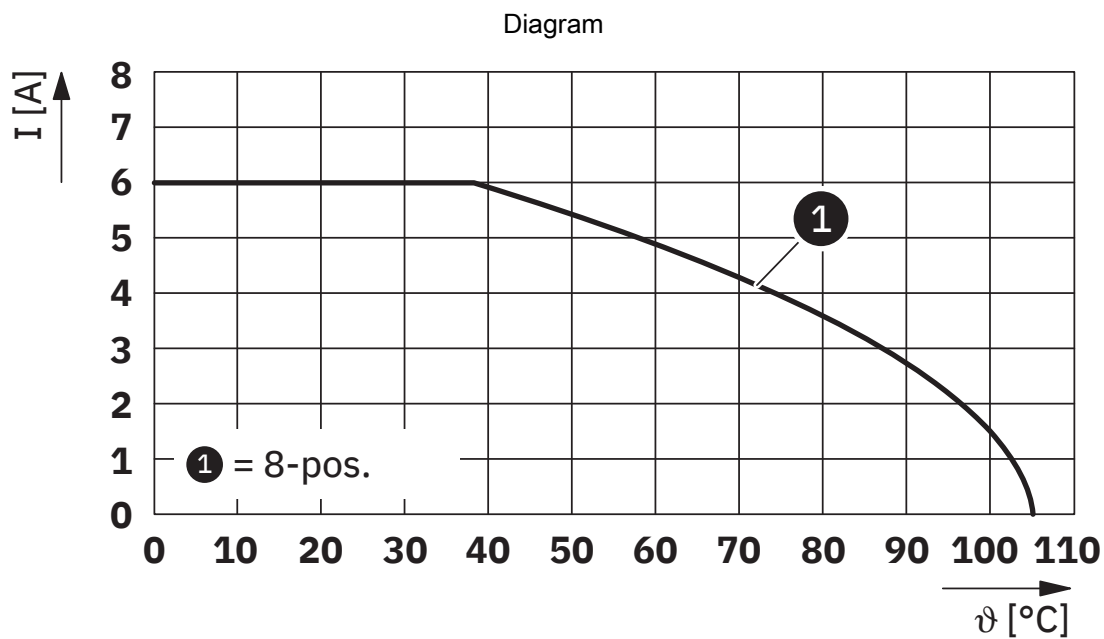
Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	32 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)	1.3 mm
Rated insulation voltage (III/2)	32 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)	0.53 mm
Rated insulation voltage (II/2)	32 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)	0.53 mm

Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Carton

Drawings



Type: TBUS8-...-BRIDGE

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1387011>

 cUL Recognized Approval ID: E118976-20151204				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	29.9 V	4 A	-	-

 UL Recognized Approval ID: E118976-20151204				
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	29.9 V	6 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	EC002637
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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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