

# ME 22,5 TBUS 1,5/4P1S BK - DIN rail bus connector



2203852

<https://www.phoenixcontact.com/us/products/2203852>

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RAIL



DIN rail bus connector, color: black, nominal current: 8 A, 8 A (parallel contacts) (Serial contacts), rated voltage (III/2): 50 V, number of positions: 5, product range: TBUS5-22,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: without, Articles with gold-plated contacts, bus connectors for connecting with electronic housings

## Your advantages

- Space-saving installation under the housing in the DIN rail
- Contact design enables electronics modules to be easily snapped on
- Power supply and communication without additional wiring
- Parallel and serial contacts for efficient signal and data transmission

## Commercial data

Item number	2203852
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AC22
Product key	ACHACA
GTIN	4055626449074
Weight per piece (including packing)	5.256 g
Weight per piece (excluding packing)	5.25 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Recommendation	Material of contact pads for bus connector, galvanic gold (hard gold)
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### Product properties

Product type	DIN rail bus connector
Product family	TBUS5-22,5..
Number of positions	5
Pitch	3.81 mm

### Electrical properties

#### Properties

Nominal current $I_N$	8 A (parallel contacts)
Nominal voltage $U_N$	50 V
Contact resistance	4.4 m $\Omega$
Rated voltage (III/2)	50 V
Rated surge voltage (III/2)	0.8 kV
Rated voltage (II/2)	50 V
Rated surge voltage (II/2)	0.5 kV

### Material specifications

#### Material data - contact

Contact material	Cu alloy
Surface characteristics	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	3.81 mm
Width [w]	29.2 mm
Height [h]	36.5 mm
Length [l]	20.45 mm

### Mounting

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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.	6 N
Withdraw strength per pos. approx.	5 N

### Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed

### Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

### 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	2.95 kV
Contact resistance $R_1$	4.4 m $\Omega$
Contact resistance $R_2$	4.5 m $\Omega$
Insertion/withdrawal cycles	25

### Climatic test

Specification	ISO 6988:1985-02
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	1.39 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 ... 500 Hz)

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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	15g
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

## 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)

## Ambient conditions

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Ambient temperature (assembly)	-5 °C ... 100 °C

## Electrical tests

### Thermal test | Test group C

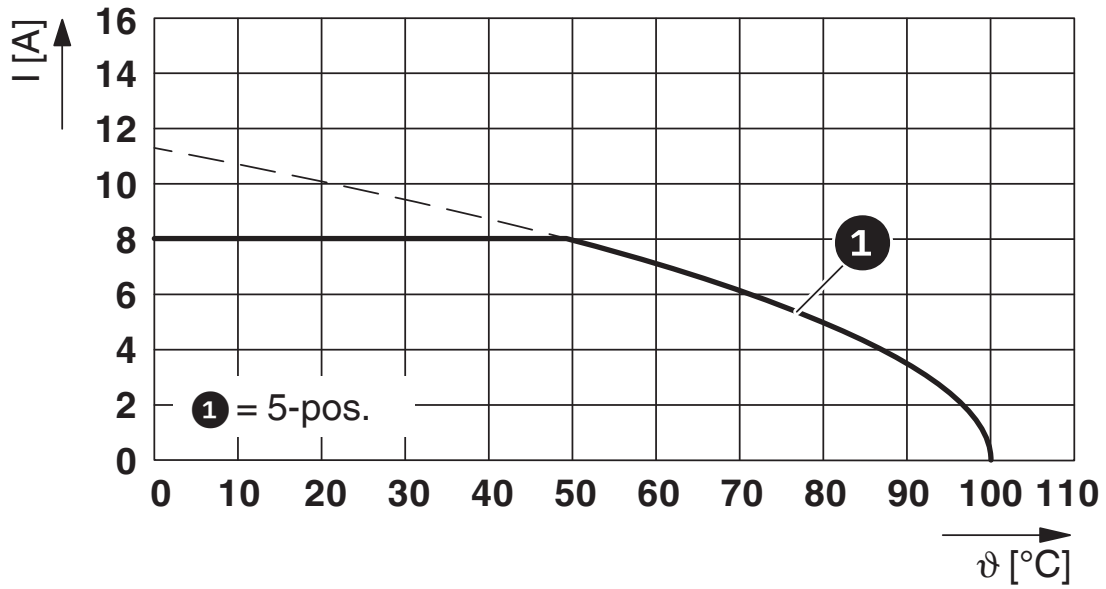
Specification	IEC 60512-5-1:2002-02
Tested number of positions	5

### Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Rated insulation voltage (III/2)	50 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)	0.6 mm
Rated insulation voltage (II/2)	50 V
Rated surge voltage (II/2)	0.5 kV
minimum clearance value - non-homogenous field (II/2)	0.2 mm
minimum creepage distance (II/2)	0.6 mm

Drawings

Diagram



Type: TBUS5...

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## Classifications

### ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

### ETIM

ETIM 10.0	EC002637
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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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)