

# ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connectors



2201813

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DIN rail connector, color: light grey, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, contact surface: Gold, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

## 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	2201813
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	AC15
Product key	ACHEDA
Catalog page	Page 35 (NTK-2014)
GTIN	4046356909365
Weight per piece (including packing)	4.6 g
Weight per piece (excluding packing)	4.6 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 connector
Product family	TBUS5..3,81
Number of positions	5
Pitch	3.81 mm

### Electrical properties

Nominal current $I_N$	8 A (parallel contacts)
Nominal voltage $U_N$	125 V
Degree of pollution	3
Contact resistance	4.4 mΩ
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	125 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

### Dimensions

Pitch	3.81 mm
Width [w]	25.5 mm
Height [h]	36.5 mm
Length [l]	20.45 mm

### Material specifications

#### Material data - contact

Contact material	Cu alloy
Surface characteristics	gold-plated

#### Material data - housing

Color (Housing)	light grey (7035)
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
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CTI according to IEC 60112	600
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## 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 surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	1.9 mm
Rated insulation voltage (III/2)	125 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	0.75 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

## 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

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## 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	0.35 mm (10 Hz ... 60.1 Hz)
Sweep speed	5g (60.1 Hz ... 500 Hz)
Test duration per axis	2.5 h

### Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance $R_1$	4.4 mΩ
Contact resistance $R_2$	4.5 mΩ
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

### 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	15g
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)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

## Mounting

Mounting type	DIN rail mounting
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## Packaging specifications

Type of packaging	packed in cardboard
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Outer packaging type	Carton
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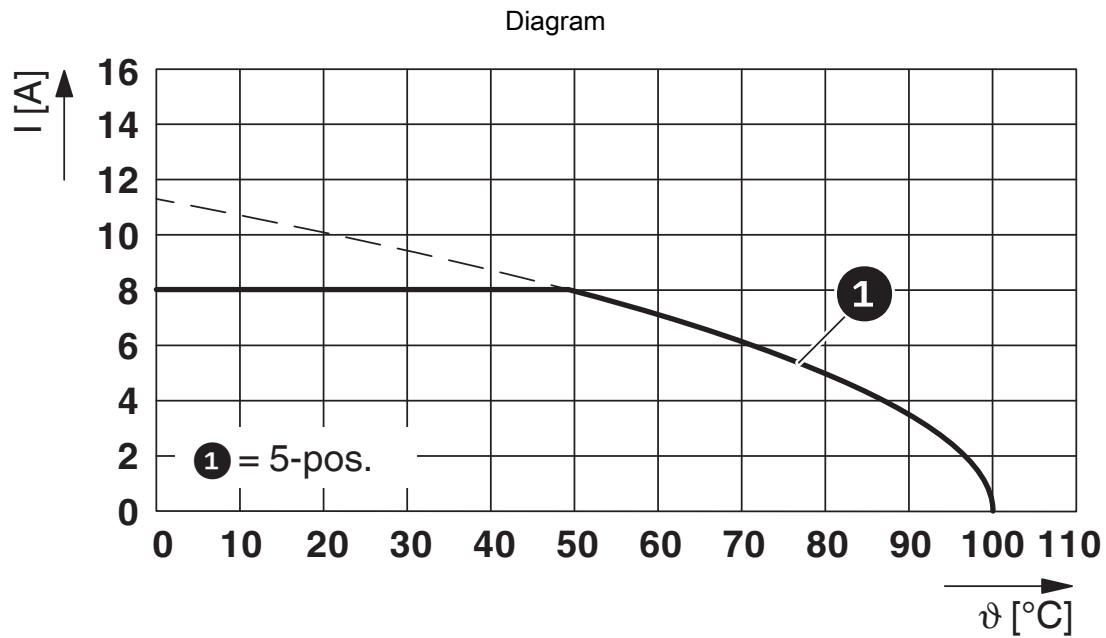
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## Drawings



Type: TBUS5...

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2201813>

	<b>cUL Recognized</b> Approval ID: E118976-20151204			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	150 V	6 A	-	-

	<b>UL Recognized</b> Approval ID: E118976-20151204			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	150 V	8 A	-	-

	<b>EAC</b> Approval ID: B.01687			

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

### ETIM

ETIM 8.0	EC002637
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

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

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## Accessories

### E/ME TBUS NS35 GY - End clamp

2713780

<https://www.phoenixcontact.com/us/products/2713780>



End clamp, stable construction for DIN rail bus connector

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### IMC 1,5/ 5-ST-3,81 AU - Printed-circuit board connector

1943276

<https://www.phoenixcontact.com/us/products/1943276>



PCB connector, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Gold, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: IMC 1,5/...-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

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## IMC 1,5/ 5-ST-3,81 GY7035 AU - Printed-circuit board connector

1719707

<https://www.phoenixcontact.com/us/products/1719707>



PCB connector, nominal cross section: 1.5 mm<sup>2</sup>, color: light grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Gold, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: IMC 1,5/...-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

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