

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

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: light grey, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, 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 | 2713645 |
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Sales key | AC08 |
| Product key | ACHACA |
| Catalog page | Page 666 (C-1-2013) |
| GTIN | 4017918914509 |
| Weight per piece (including packing) | 4.65 g |
| Weight per piece (excluding packing) | 4.35 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

Technical data

Notes

| | |
|----------------|---|
| Recommendation | Material of contact pads for bus connector, galvanic gold (hard gold) |
|----------------|---|

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 |

Connection data

| | |
|----------------------|-----|
| Maximum load current | 8 A |
|----------------------|-----|

Dimensions

| | |
|------------|----------|
| Pitch | 3.81 mm |
| Width [w] | 24.2 mm |
| Height [h] | 36.3 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 |

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

Connector

Connection 1

| | |
|----------------------------|-----|
| Insulating material | PA |
| CTI according to IEC 60112 | 600 |

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 |

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

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 | 0.35 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 ³ SO ₂ on 300 dm ³ /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

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

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

Packaging specifications

| | |
|----------------------|---------------------|
| Type of packaging | packed in cardboard |
| Outer packaging type | Carton |

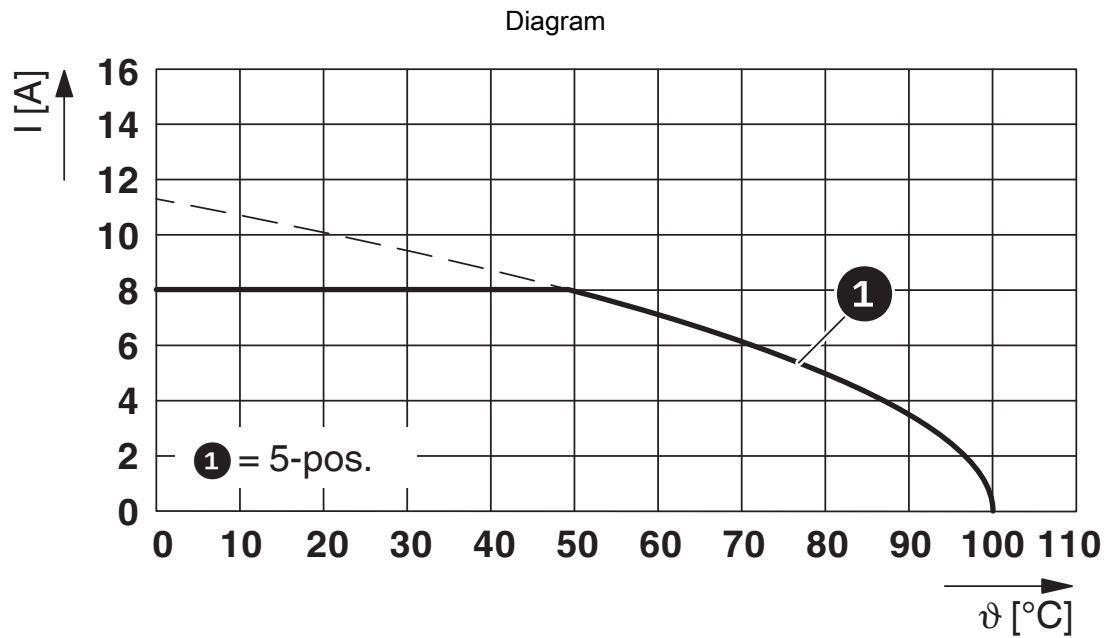
ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

Drawings



Type: TBUS5...

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors





2713645

<https://www.phoenixcontact.com/us/products/2713645>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2713645>

| | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  cUL Recognized Approval ID: E118976-20151204 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 150 V | 6 A | - | - |

| | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|  UL Recognized Approval ID: E118976-20151204 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 150 V | 8 A | - | - |

| | | | | |
|-------------------------|--|--|--|--|
| cULus Recognized | | | | |
|-------------------------|--|--|--|--|

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002637 |
|----------|----------|

UNSPSC

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

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645
<https://www.phoenixcontact.com/us/products/2713645>

Environmental product compliance

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

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

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

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 mm², 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

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors



2713645

<https://www.phoenixcontact.com/us/products/2713645>

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 mm², 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

Phoenix Contact 2023 © - 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