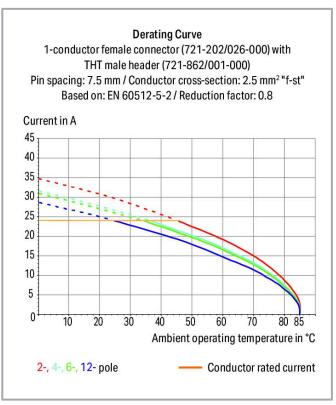
THT male header; $1.0 \times 1.0 \text{ mm}$ solder pin; straight; 100% protected against mismating; Preceding ground contact; Pin spacing 7.5 mm; 3-pole; light gray



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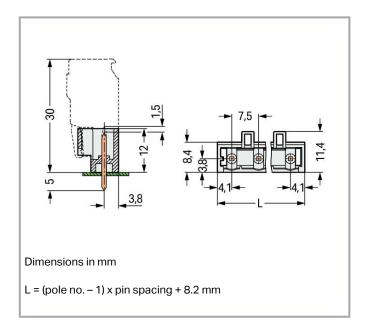




 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- 100 % protected against mismating
- With coding fingers

Data Notes

| Safety information | The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected /disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated. |
|--------------------|--|
| Variants: | Other pole numbers 3.8 mm pin projection for male headers with straight solder pins Gold-plated or partially gold-plated contact surfaces Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/. |

Electrical data

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|-------------------------------|---|
| Nominal voltage (III/3) | 500 V |
| Rated impulse voltage (III/3) | 6 kV |
| Rated voltage (III/2) | 630 V |
| Rated impulse voltage (III/2) | 6 kV |
| Nominal voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| Rated current | 12 A |
| Legend (ratings) | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |
| | |

Ratings per UL 1059

| Approvals per | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 15 A |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A |

Ratings per UL 1977

| Rated voltage (UL 1977) | 600 V |
|-------------------------|-------|
| Rated current UL 1977 | 10 A |

Ratings per CSA

| Approvals per | CSA |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

Connection data

| Total number of potentials | 3 |
|----------------------------|----------------------|
| Number of connection types | 1 |
| Number of levels | 1 |
| PE function | Preceding PE contact |

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Connection 1

Pole number 3

Physical data

| Pin spacing | 7.5 mm / 0.295 inches |
|--------------------------------------|--------------------------|
| Width | 23 mm / 0.906 inches |
| Height | 17 mm / 0.669 inches |
| Height from the surface | 12 mm / 0.472 inches |
| Depth | 11.4 mm / 0.449 inches |
| Solder pin length | 5 mm |
| Solder pin dimensions | 1 x 1 mm |
| Drilled hole diameter with tolerance | 1.4 ^(+0.1) mm |

Mechanical Data

| Variable coding | Yes |
|--------------------------|-----|
| Anti-rotation protection | Yes |

Plug-in connection

| Contact type (pluggable connector) | Male connector/plug |
|--------------------------------------|---------------------|
| Connector (connection type) | for PCB |
| Mismating protection | Yes |
| Plugging without loss of pin spacing | No |
| Mating direction to the PCB | 90 ° |
| Locking of plug-in connection | none |

PCB contact

| PCB contact | ТНТ |
|-------------------------------------|--|
| Solder pin arrangement | over the entire male connector (in-line) |
| Number of solder pins per potential | 1 |

Material Data

Note (material data)

Information on material specifications can be found here

| Color | nt gray |
|-------|---------|
| | |

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| Material group | T |
|-----------------------------|--|
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | Tin |
| Fire load | 0.028 MJ |
| Weight | 1.3 g |

Environmental requirements

| Limit temperature range | -60 +100 °C |
|-------------------------|-------------|
| Processing temperature | -35 +60 °C |

Commercial data

| Product Group | 3 (Multi Conn. System) |
|-----------------------|------------------------|
| eCl@ss 10.0 | 27-44-04-02 |
| eCl@ss 9.0 | 27-44-04-02 |
| ETIM 8.0 | EC002637 |
| ETIM 7.0 | EC002637 |
| PU (SPU) | 200 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4044918869218 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

| RoHS Compliance Status | Compliant,No Exemption | |
|------------------------|------------------------|--|
|------------------------|------------------------|--|

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|------------------------------|--------------------------|---------------------|
| | СВ | IEC 61984 | NL-39756 |
| | DEKRA Certification B.V. | | /A1 |
| (SA) | CSA DEKRA Certification B.V. | C22.2 | 1466354 |

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| V | E | М | Α |
|---|---|---|---|
| N | E | U | R |

KEMA/KEURDEKRA Certification B.V.

EN 61984

71-121453



URUnderwriters Laboratories Inc.

UL 1059

E45172



UR

UL 1977

E 45171

Certificate

Declarations of conformity and manufacturer's declarations

Underwriters Laboratories Inc.

| Logo | Approval | Additional Approval Text | Certificate name |
|---------|--------------------|--------------------------|---------------------|
| RAILWAY | Railway | - | Railway |
| READY | WAGO GmbH & Co. KG | | Ready |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | name |
|-----------|---|--------------------------|--------------------------|
| ABS. | ABS American Bureau of Shipping | - | 19- HG1869876- PDA |
| BUREAU | BV Bureau Veritas S.A. | IEC 60998 | 11915/D0 BV |
| DNV.COMAF | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE000016Z |

Counterpart



Item no.721-203/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 3-pole; 100% protected against mismating; 2,50 mm²; light gray

www.wago.com/721-203 /026-000

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Optional accessories

Marking accessories

Marking strip

Item no.: 210-833

Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

www.wago.com/210-833

Item no.: 210-834

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

www.wago.com/210-834

Coding

Coding



Item no.: 231-130

Coding key; snap-on type; light gray

www.wago.com/231-130

Downloads

Documentation

Additional Information

Technical Section

2019 Apr 3

pdf

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Technical explanations

2.0 MB

CAD/CAE-Data

CAE data

EPLAN Data Portal 721-233/001-040

URL

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EPLAN Data Portal 721-233/001-040

URL

Download

PCB Design

Symbol and Footprint 721-233/001-040

URL

Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- **Eagle Libraries**

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- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

CAD data

2D/3D Models 721-233/001-040 URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 721-233/001-040

URL

Download

THT male header; $1.0 \times 1.0 \text{ mm}$ solder pin; straight; 100% protected against mismating; Preceding ground contact; Pin spacing 7.5 mm; 3-pole; light gray

Installation Notes

Product family

MCS MIDI

Show all products from the family

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