

**Data sheet | Item number: 722-841/031-000**

THT female header; angled; Pin spacing 7.5 mm; 11-pole; 100% protected against mismatching; clamping collar; 0.6 x 1.0 mm solder pin; light gray

[www.wago.com/722-841\\_031-000](http://www.wago.com/722-841_031-000)



**i** Picture differs from the item.

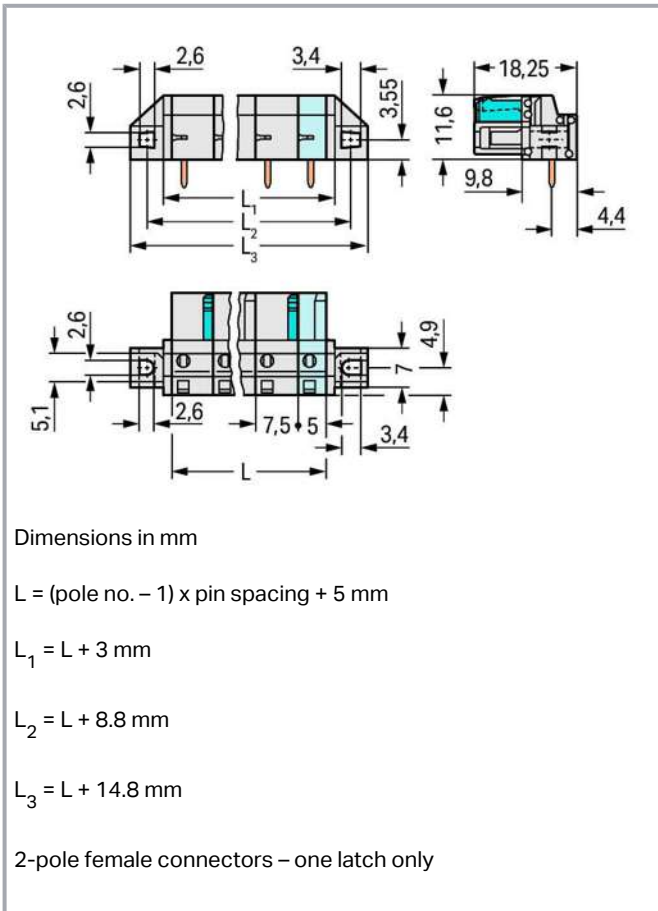
Color:



Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- 100 % protected against mismatching
- With coding fingers

## Data

### Notes

Safety information 1

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. The circuit design should

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ensure header pins, which can be touched, are not live when unmated.

## Electrical data

### IEC Approvals

|                             |   |
|-----------------------------|---|
| Ratings per                 | IEC/EN 60664-1  |
| Rated voltage (III / 3)     | 500 V   |
| Rated surge voltage (III/3) | 6 kV  |
| Rated voltage (III/2)       | 630 V   |
| Rated surge 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) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### UL Approvals

|                                |         |
|--------------------------------|---------|
| 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

|                       |       |
|-----------------------|-------|
| Rated voltage UL 1977 | 600 V |
| Rated current UL 1977 | 15 A  |

### CSA Approvals

|                                 |       |
|---------------------------------|-------|
| 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 | 11 |
|----------------------------|----|

Subject to changes. Please also observe the further product documentation!



|                            |   |
|----------------------------|---|
| Number of connection types | 1 |
| Number of levels           | 1 |

### Connection 1

|                 |    |
|-----------------|----|
| Number of poles | 11 |
|-----------------|----|

### Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 7.5 mm / 0.295 inch      |
| Width                                | 94.8 mm / 3.732 inch     |
| Height                               | 16.6 mm / 0.654 inch     |
| Height from the surface              | 11.6 mm / 0.457 inch     |
| Depth                                | 18.25 mm / 0.719 inch    |
| Solder pin length                    | 5 mm                     |
| Solder pin dimensions                | 0.6 x 1 mm               |
| Drilled hole diameter with tolerance | 1.3 <sup>(+0.1)</sup> mm |

### Mechanical data

|               |   |
|---------------|---|
| Mounting type | Mounting flange                         |
| Mounting type | Feed-through mounting<br>Panel mounting |

### Plug-in connection

|                                    |               |
|------------------------------------|---------------|
| Contact type (pluggable connector) | Female header |
| Connector (connection type)        | for PCB       |
| Mismating protection               | Yes           |
| Mating direction to the PCB        | 0°            |
| Locking of plug-in connection      | Without       |

### PCB contact

|                                     |  |
|-------------------------------------|--|
| PCB Contact                         | THT  |
| Solder pin arrangement              | over the entire female connector (in-line) |
| Number of solder pins per potential | 1  |

### Material data

|                |            |
|----------------|------------|
| Color          | light gray |
| Material group | I          |

Subject to changes. Please also observe the further product documentation!

|                             |                  |
|-----------------------------|------------------|
| Insulation material         | Polyamide (PA66) |
| Flammability class per UL94 | V0               |
| Contact material            | Copper alloy     |
| Contact plating             | tin-plated       |
| Weight                      | 12.8g            |

### Environmental requirements



|                         |                |
|-------------------------|----------------|
| Limit temperature range | -60 ... +85 °C |
|-------------------------|----------------|

### Commercial data


|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 10 Stück      |
| Packaging type        | box           |
| Country of origin     | DE            |
| GTIN                  | 4055143759311 |
| Customs tariff number | 85366990990   |

### Approvals / Certificates

#### Ship Approvals

| Logo  | Approval  | Additional Approval Text | Certificate name         |
|---|---|--------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1869876-<br>PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | IEC 60998                | 11915/DO<br>BV           |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z               |

#### UL-Approvals

| Logo   | Approval                                    | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

Subject to changes. Please also observe the further product documentation!



## Counterpart



Item no.723-611

1-conductor male connector; CAGE CLAMP®; 2.5 mm<sup>2</sup>; Pin spacing 7.5 mm; 11-pole; 100% protected against mismatching; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/723-611](http://www.wago.com/723-611)

## Downloads

### Documentation

#### Additional Information

|                        |            |               |          |
|------------------------|------------|---------------|----------|
| Technical explanations | 2019 Apr 3 | pdf<br>2.0 MB | Download |
|------------------------|------------|---------------|----------|

## CAD files

### PCB Design

|                                      |     |          |
|--------------------------------------|-----|----------|
| Symbol and Footprint 722-841/031-000 | 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
- 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

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- 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

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#### CAE data

|                              |                     |                          |
|------------------------------|---------------------|--------------------------|
| ZUKEN Portal 722-841/031-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

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#### CAD data

|                              |                     |                          |
|------------------------------|---------------------|--------------------------|
| 2D/3D Models 722-841/031-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

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### Environmental Product Compliance

#### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 722-841/031-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|--|---------------------|--------------------------|

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### Installation Notes

#### Product family

##### MCS MIDI

[Show all products from the family](#)

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