

Data sheet | Item number: 2061-1602/998-404

THR PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 6 mm; 2-pole;  
Push-in CAGE CLAMP®; in tape-and-reel packaging; 1,50 mm<sup>2</sup>; white



[www.wago.com/2061-1602/998-404](http://www.wago.com/2061-1602/998-404)



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

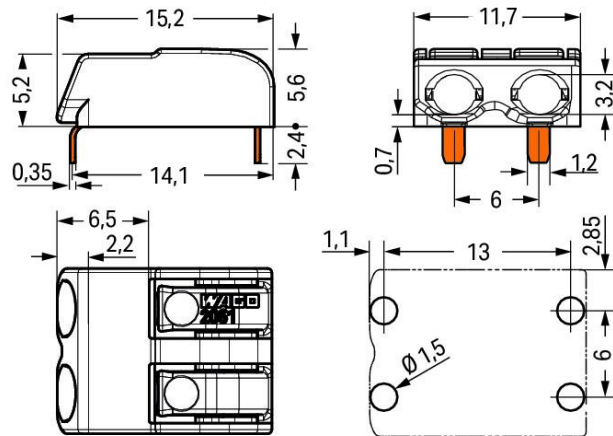
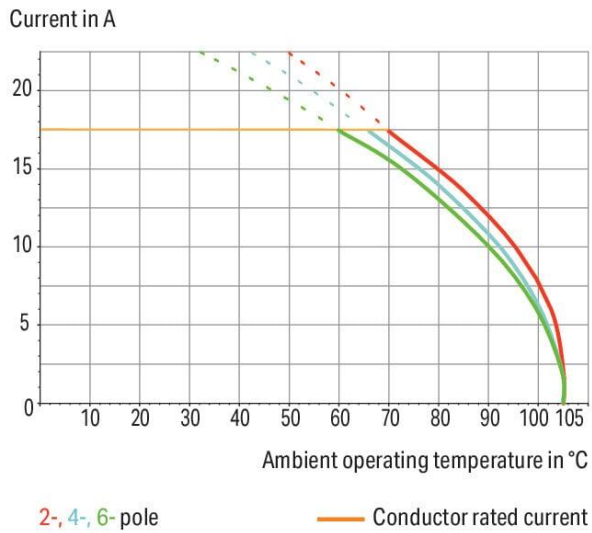
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**Current-Carrying Capacity Curve**

Pin spacing: 6 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "e"  
Based on: EN 60512-5-2 / Reduction factor: 1

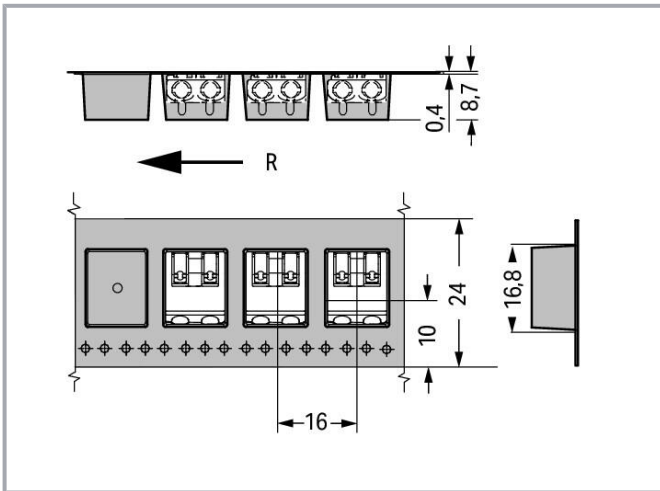


Dimensions in mm  
L = (pole no. x pin spacing) – 0.3 mm

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## Item description

- THR PCB terminal blocks with Push-in CAGE CLAMP<sup>®</sup> connection technology and push-buttons
- Push-in termination of solid and ferruled conductors
- Convenient termination/removal of fine-stranded conductors via push-buttons
- Just 5.6 mm tall
- Available in tape-and-reel packaging for automated assembly
- Also suitable for wave soldering
- Assemble terminal blocks without pole loss

## Data

### Notes

#### Note

#### Application notes:

Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260°C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.

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**Recommendation**

Recommendation for stencil:

150 µm material thickness  
Stencil hole diameter identical to metal-plated PCB hole outer diameter

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**Electrical data**
**Ratings per IEC/EN**

| Ratings per                   | IEC/EN 60664-1  |
|-------------------------------|---|
| Nominal voltage (III/3)       | 250 V   |
| Rated impulse voltage (III/3) | 4 kV  |
| Rated voltage (III/2)         | 320 V   |
| Rated impulse voltage (III/2) | 4 kV  |
| Nominal voltage (II/2)        | 630 V   |
| Rated surge voltage (II/2)    | 4 kV  |
| Rated current                 | 17.5 A  |
| Legend (ratings)              | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

**Ratings per UL**

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

**Connection data**

|                            |   |
|----------------------------|---|
| Connection points          | 2 |
| Total number of potentials | 2 |
| Number of connection types | 1 |
| Number of levels           | 1 |

**Connection 1**

|                       |                     |
|-----------------------|---------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type        | Push-button         |

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

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|   |  |
|---|--|
| Solid conductor                                   | 0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG |
| Fine-stranded conductor                           | 0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG  |
| Fine-stranded conductor; with insulated ferrule   | 0.5 ... 0.75 mm <sup>2</sup>                 |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 0.75 mm <sup>2</sup>                 |
| Strip length                                      | 7 ... 10 mm / 0.28 ... 0.39 inches           |
| Conductor connection direction to PCB             | 0°   |
| Pole number                                       | 2  |

### Physical data

|  |                          |
|--|--------------------------|
| Pin spacing                              | 6 mm / 0.24 inches       |
| Width                                    | 11.7 mm / 0.461 inches   |
| Height                                   | 8 mm / 0.315 inches      |
| Height from the surface                  | 5.6 mm / 0.22 inches     |
| Depth                                    | 15.2 mm / 0.598 inches   |
| Solder pin length                        | 2.4 mm                   |
| Solder pin dimensions                    | 1.2 x 0.35 mm            |
| Plated through-hole diameter (THR)       | 1.5 <sup>(+0.1)</sup> mm |
| Reel diameter of tape-and-reel packaging | 330 mm                   |
| Tape width                               | 24 mm                    |

### PCB contact

|                                     |  |
|-------------------------------------|--|
| PCB contact                         | THR                                      |
| Solder pin arrangement              | over the entire terminal strip (in-line) |
| Number of solder pins per potential | 2  |

### Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | white  |
| Material group              | I  |
| Insulation material         | Polyphthalamide (PPA GF)                                 |
| Flammability class per UL94 | V0   |
| Contact material            | Copper alloy   |
| Contact plating             | Tin  |
| Weight                      | 1.1 g  |
| MSL per J-STD 020D          | 1  |

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

## Environmental requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

## Commercial data





|                       |                |
|-----------------------|----------------|
| eCl@ss 10.0           | 27-14-11-06    |
| eCl@ss 9.0            | 27-14-11-06    |
| ETIM 8.0              | EC001284       |
| ETIM 7.0              | EC001284       |
| ECCN                  | NO DATA        |
| PU (SPU)              | 4320 (480) pcs |
| Packaging type        | box            |
| Country of origin     | CN             |
| GTIN                  | 4055143274692  |
| Customs tariff number | 85369010000    |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo   | Approval                                | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.         | EN 60838                 | NTR NL-7721      |
|  | CCA<br>DEKRA Certification B.V.         | EN 60947-7-4             | 71-110254        |
|  | CCA<br>DEKRA Certification B.V.         | EN 60947-7-4             | NTR NL-7773      |
|  | cURus<br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |

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



KEMA/KEUR  
DEKRA Certification B.V.

EN 60838



71-  
106232

## Optional accessories

### Ferrule

| Ferrule   |  |  |
|---|--|--|
|    | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored  | <a href="http://www.wago.com/216-101">www.wago.com/216-101</a> |
|    | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored   | <a href="http://www.wago.com/216-102">www.wago.com/216-102</a> |
|    | <b>Item no.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92     | <a href="http://www.wago.com/216-142">www.wago.com/216-142</a> |
|    | <b>Item no.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92      | <a href="http://www.wago.com/216-141">www.wago.com/216-141</a> |
|    | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray   | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|  | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white   | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|  | <b>Item no.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <a href="http://www.wago.com/216-262">www.wago.com/216-262</a> |

### Tool

| Operating tool   |  |  |
|--|--|--|
|  | <b>Item no.: 2061-190</b><br>Operating tool; made of insulating material | <a href="http://www.wago.com/2061-190">www.wago.com/2061-190</a> |
|  | <b>Item no.: 206-866</b><br>Operating tool; for 2061 Series              | <a href="http://www.wago.com/206-866">www.wago.com/206-866</a>   |

## Downloads

### Documentation

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

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### Additional Information

|                        |            |          |          |
|------------------------|------------|----------|----------|
| Technical Section      | 2019 Apr 3 | pdf      | Download |
| Technical explanations |            | 2.1 MB   |          |
| THR Soldering Process  |            | pdf      | Download |
|                        |            | 548.2 kB |          |

### CAD/CAE-Data

#### CAD data

|                                |     |          |
|--------------------------------|-----|----------|
| 2D/3D Models 2061-1602/998-404 | URL | Download |
|--------------------------------|-----|----------|

#### PCB Design

|  |     |          |
|--|-----|----------|
| Symbol and Footprint via Ultra Librarian 2061-1602/998-404 | 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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- 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
- Pulsonix 8.5 or newer
- STL
- 3D STEP

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





- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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

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Symbol and Footprint via SamacSys 2061-1602/998-404

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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer

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■ Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

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**CAE data**

|                                |     |          |
|--------------------------------|-----|----------|
| ZUKEN Portal 2061-1602/998-404 | URL | Download |
|--------------------------------|-----|----------|

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**Asset Administration Shell**

|  |     |          |
|--|-----|----------|
| Asset Administration Shell 2061-1602/998-404 | URL | Download |
|--|-----|----------|

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**Environmental Product Compliance**

**Compliance Search**

|  |     |          |
|--|-----|----------|
| Environmental Product Compliance 2061-1602/998-404<br>THR PCB terminal block; push-button; 1.5 mm <sup>2</sup> ; Pin spacing 6 mm; 2-pole; Push-in CAGE CLAMP®; in tape-and-reel packaging; 1,50 mm <sup>2</sup> ; white | URL | Download |
|--|-----|----------|

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**Installation Notes**

**Conductor termination**



Inserting solid conductors via push-in termination.

**Conductor termination**

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



Easy conductor removal, e.g., via operating tool (206-861)

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