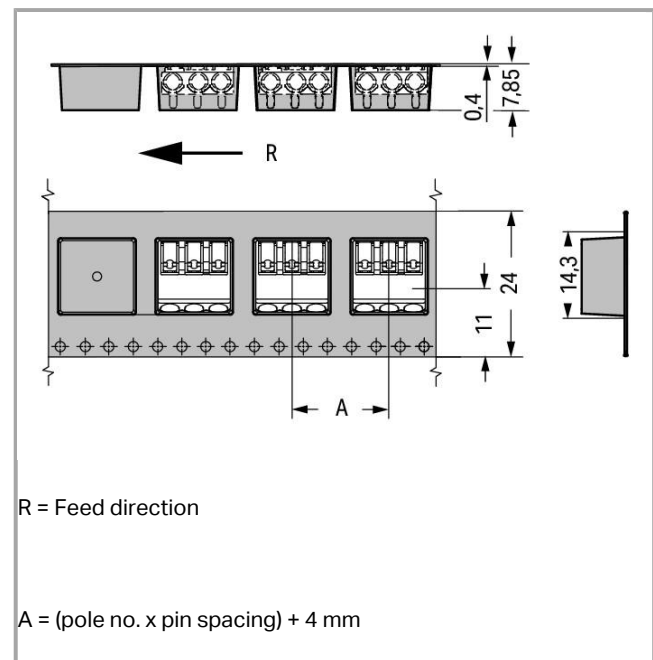
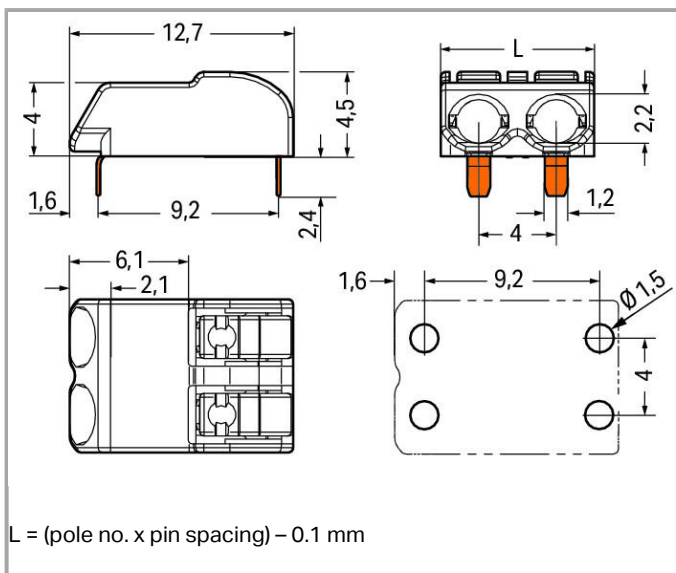
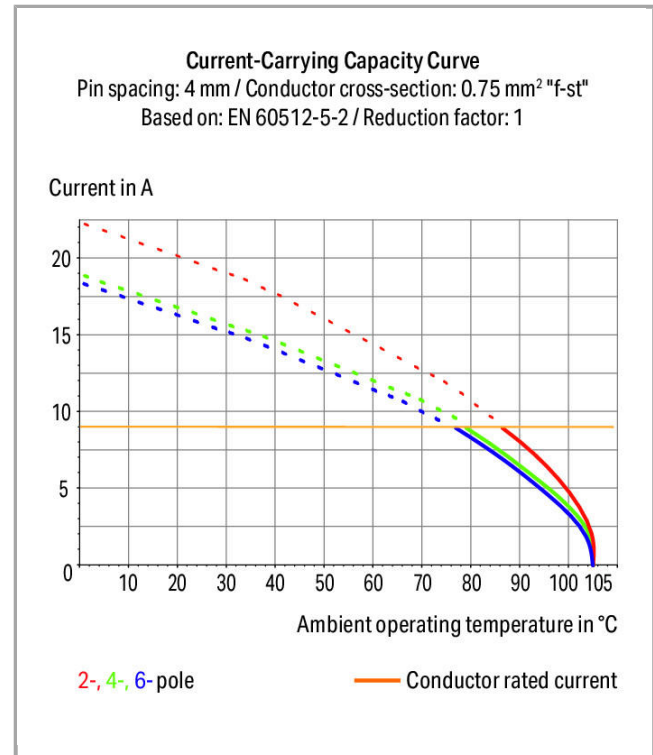


# Data sheet | Item number: 2060-1452/998-404

THR PCB terminal block; push-button; 0.75 mm<sup>2</sup>; Pin spacing 4 mm; 2-pole;  
Push-in CAGE CLAMP®; in tape-and-reel packaging; 0,75 mm<sup>2</sup>; white



[www.wago.com/2060-1452/998-404](http://www.wago.com/2060-1452/998-404)





### Item description

- THR PCB terminal blocks with push-buttons and Push-in CAGE CLAMP® connection
- Push-in termination of solid and ferruled conductors
- Convenient termination/removal of fine-stranded conductors via push-buttons
- Just 4.5 mm tall
- Available in tape-and-reel packaging for automated assembly
- Also suitable for wave soldering

### Note:

#### Application note:

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 customer-specific variables (e.g., component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

### Recommendation:

#### Recommendation for stencil:

150 µm material thickness

The stencil hole diameter is identical to the outer diameter of the metal-plated PCB hole.

### Data

#### Electrical data



## Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 63 V   |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 9 A    |

## Approvals per UL 1977

|                                                 |       |
|-------------------------------------------------|-------|
| Rated voltage per UL 1977 (factory wiring only) | 320 V |
| Rated current per UL 1977 (factory wiring only) | 9 A   |

## Connection data

|                                                             |                                  |
|-------------------------------------------------------------|----------------------------------|
| Connection technology                                       | Push-in CAGE CLAMP®              |
| Actuation type                                              | Push-button                      |
| Solid conductor                                             | 0.2 ... 0.75 mm² / 24 ... 18 AWG |
| Fine-stranded conductor                                     | 0.2 ... 0.75 mm² / 24 ... 18 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 0.34 mm²                |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 0.34 mm²                |
| Strip length                                                | 6 ... 7 mm / 0.24 ... 0.28 inch  |
| Conductor entry angle to the PCB                            | 0°                               |
| Total number of connection points                           | 2                                |
| Total number of potentials                                  | 2                                |
| Number of connection types                                  | 1                                |
| Number of levels                                            | 1                                |
| No. of poles                                                | 2                                |

## Geometrical Data

|                                          |                     |
|------------------------------------------|---------------------|
| Pin spacing                              | 4 mm / 0.157 inch   |
| Width                                    | 7.9 mm / 0.311 inch |
| Height                                   | 6.9 mm / 0.272 inch |
| Height from the surface                  | 4.5 mm / 0.177 inch |
| Depth                                    | 12.7 mm / 0.5 inch  |
| Solder pin length                        | 2.4 mm              |
| Solder pin dimensions                    | 1.2 x 0.75 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

|                             |                                   |
|-----------------------------|-----------------------------------|
| Color                       | white                             |
| Material group              | I                                 |
| Insulating material         | Polyphthalamide (PPA GF)          |
| Flammability class per UL94 | V0                                |
| Clamping spring material    | Chrome nickel spring steel (CrNi) |
| Contact material            | Copper alloy                      |
| Contact plating             | tin-plated                        |
| Weight                      | 0.518 g                           |

## Environmental Requirements

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

## Commercial data

|                    |               |
|--------------------|---------------|
| Country of origin  | CH            |
| GTIN               | 4055143331203 |
| Customs Tariff No. | 85369010000   |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                              | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.       | EN 60947                 | NTR NL-7724      |
|  | CCA<br>DEKRA Certification B.V.       | EN 60838                 | NTR NL-2168246   |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947                 | 71-108183        |
|                                                                                    | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60838                 | 2168246.01       |



KEMA/KEUR  
 DEKRA Certification B.V.

EN 60998

71-108181



## UL-Approvals

| Logo                                                                             | Approval                                | Additional Approval Text | Certificate name    |
|----------------------------------------------------------------------------------|-----------------------------------------|--------------------------|---------------------|
|  | cURus<br>Underwriters Laboratories Inc. | UL 1977                  | E45171-<br>20111005 |

## Compatible products

### ferrule

|                                                                                   |                                                                                                               |                                                                |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | Item no.: 216-131<br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated       | <a href="http://www.wago.com/216-131">www.wago.com/216-131</a> |
|  | Item no.: 216-132<br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated       | <a href="http://www.wago.com/216-132">www.wago.com/216-132</a> |
|                                                                                   | Item no.: 216-301<br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|  | Item no.: 216-302<br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green  | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |

### tools

|                                                                                    |                                                                                    |                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | Item no.: 2060-189<br>Operating tool; made of insulating material; for 2060 Series | <a href="http://www.wago.com/2060-189">www.wago.com/2060-189</a> |
|  | Item no.: 206-860<br>Operating tool; for 2060 Series                               | <a href="http://www.wago.com/206-860">www.wago.com/206-860</a>   |

## Downloads

### Documentation

#### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |
|------------------------|-------------|---------------|----------|



CAD/CAE-Data

CAD data

| 3D Download 2060-1452/998-404 | URL | Download |
|-------------------------------|-----|----------|
|-------------------------------|-----|----------|

Subject to changes.

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