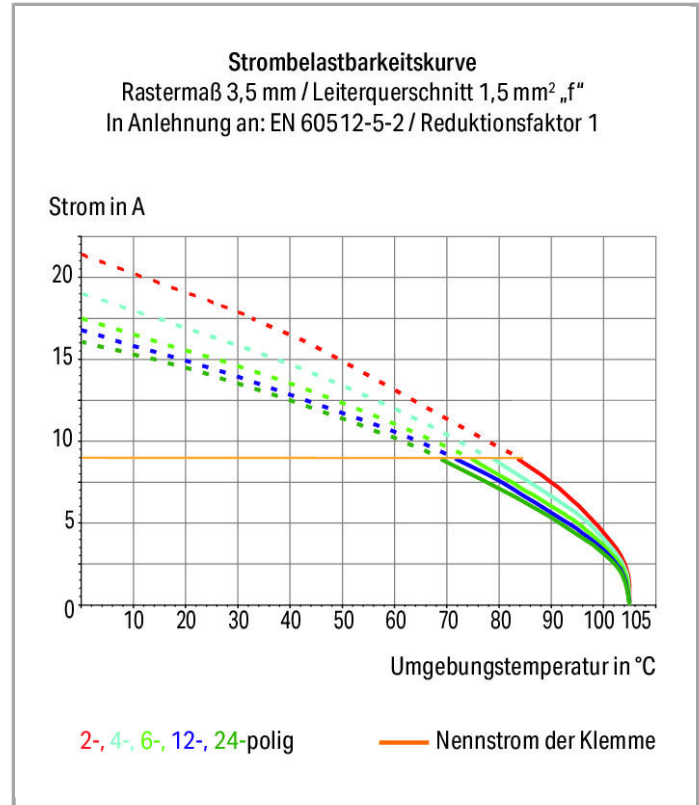


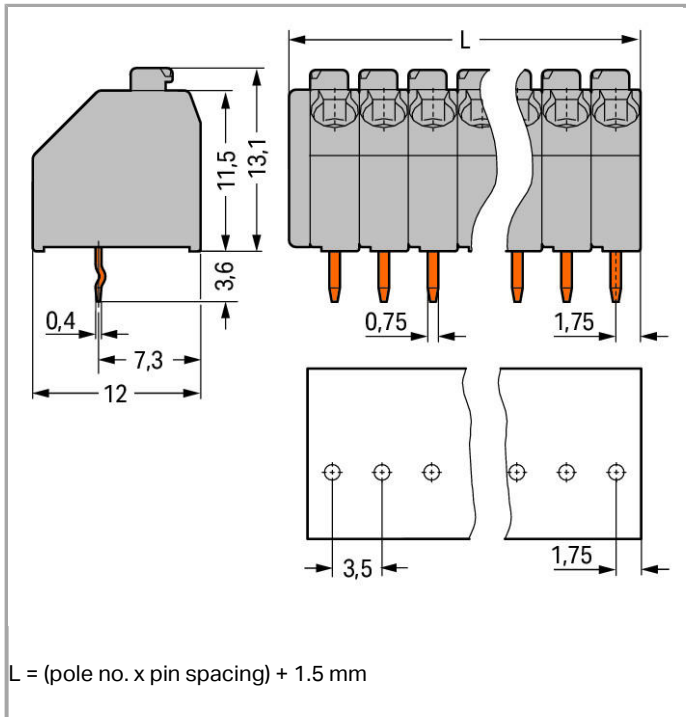
Data sheet | Item number: 250-123/000-012

PCB terminal block; Push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 23-pole;  
Push-in CAGE CLAMP®



[www.wago.com/250-123/000-012](http://www.wago.com/250-123/000-012)





### Item description

- Compact terminal strips with push-buttons
- Push-in terminations of solid and ferruled conductors
- Termination/removal of fine-stranded conductors via push-buttons
- 45° conductor entry angle provides easy, space-saving wiring
- Custom color combinations
- Terminal strips also available with spacers upon request

Other variants can be requested via the WAGO sales department or, if necessary, configured at <https://configurator.wago.com/>: Direct marking, Mixed-color terminal strips, Other colors, Other pole numbers, Terminal strips with spacers

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |   |
|---------------------------------|---|
| Rated voltage (III / 3)         | 160 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                   | 8 A   |
| Legend (ratings)                | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 5 A   |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 5 A   |

### Approvals per CSA

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

### Connection data

|   |   |
|---|---|
| Connection technology                                       | Push-in CAGE CLAMP®                         |
| Actuation type  | Push-button                                 |
| Solid conductor   | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
| Fine-stranded conductor                                     | 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 1 mm <sup>2</sup>                  |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 1 mm <sup>2</sup>                  |
| Strip length  | 8.5 ... 9.5 mm / 0.33 ... 0.37 Inch         |
| Conductor entry angle to the PCB                            | 45°   |
| No. of poles  | 23  |
| Total number of connection points                           | 23  |
| Total number of potentials                                  | 23  |
| Number of connection types                                  | 1   |
| Number of levels  | 1   |

### Geometrical Data

|                                   |                        |
|-----------------------------------|------------------------|
| Pin spacing                       | 3.5 mm (0.138 inch)    |
| Width                             | 82 mm / 3.228 inch     |
| Height                            | 16.7 mm / 0.657 inch   |
| Height from the surface           | 13.1 mm / 0.516 inch   |
| Depth                             | 12 mm / 0.472 inch     |
| Solder pin length                 | 3.6 mm                 |
| Solder pin dimensions             | 0.4 x 0.75 mm          |
| Drilled hole diameter (tolerance) | 1 <sup>(+0.1)</sup> mm |

## PCB contact

|                                     |   |
|-------------------------------------|---|
| PCB contact                         | THT                                     |
| Solder pin arrangement              | over the entire terminal strip, in line |
| Number of solder pins per potential | 1                                       |

## Material Data

|                             |                                   |
|-----------------------------|-----------------------------------|
| Color                       | orange                            |
| Material group              | I                                 |
| Insulating material         | Polyamide 66 (PA 66)              |
| Flammability class per UL94 | V0                                |
| Clamping spring material    | Chrome nickel spring steel (CrNi) |
| Contact material            | Electrolytic copper (Ecu)         |
| Contact plating             | tin-plated                        |
| Weight                      | 1.111 g                           |

## Environmental Requirements

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

## Commercial data

|                    |                     |
|--------------------|---------------------|
| Country of origin  | CH                  |
| GTIN               | 4017332329217       |
| Customs Tariff No. | 85369010000         |
| Product Group      | 4 (Printed Circuit) |



## Approvals / Certificates


















### UL-Approvals








| Logo   | Approval                            | Certificate name |
|--|-------------------------------------|------------------|
|  | UL<br>UL International Germany GmbH | E45172 sec. 6    |

## Compatible products

### ferrule

|  |   |  |
|--|---|--|
|  | Item no.: 216-101<br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated  | <a href="http://www.wago.com/216-101">www.wago.com/216-101</a> |
|  | Item no.: 216-102<br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated | <a href="http://www.wago.com/216-102">www.wago.com/216-102</a> |




|  |  |  |
|--|--|--|
|    | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated  | <a href="http://www.wago.com/216-103">www.wago.com/216-103</a> |
|    | <b>Item no.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated  | <a href="http://www.wago.com/216-121">www.wago.com/216-121</a> |
|    | <b>Item no.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated   | <a href="http://www.wago.com/216-122">www.wago.com/216-122</a> |
|    | <b>Item no.: 216-123</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated  | <a href="http://www.wago.com/216-123">www.wago.com/216-123</a> |
|    | <b>Item no.: 216-131</b><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> |
|    | <b>Item no.: 216-132</b><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> |
|    | <b>Item no.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; 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.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; 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.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92    | <a href="http://www.wago.com/216-143">www.wago.com/216-143</a> |
|   | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated   | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|  | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated   | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|  | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; insulated; electro-tin plated  | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|  | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated   | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|  | <b>Item no.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated  | <a href="http://www.wago.com/216-203">www.wago.com/216-203</a> |
|  | <b>Item no.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; insulated; electro-tin plated  | <a href="http://www.wago.com/216-221">www.wago.com/216-221</a> |
|  | <b>Item no.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated   | <a href="http://www.wago.com/216-222">www.wago.com/216-222</a> |
|  | <b>Item no.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated  | <a href="http://www.wago.com/216-223">www.wago.com/216-223</a> |
|  | <b>Item no.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90    | <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> / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90   | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-243</b>   |  |

|   |  |  |
|---|--|--|
|  | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90    | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
|   | <b>Item no.: 216-262</b>   |  |
|  | Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | <a href="http://www.wago.com/216-262">www.wago.com/216-262</a> |
|   | <b>Item no.: 216-263</b>   |  |
|  | Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90    | <a href="http://www.wago.com/216-263">www.wago.com/216-263</a> |
|   | <b>Item no.: 216-301</b>   |  |
|  | Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|   | <b>Item no.: 216-302</b>   |  |
|  | Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |
|   | <b>Item no.: 216-321</b>   |  |
|  | Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | <a href="http://www.wago.com/216-321">www.wago.com/216-321</a> |
|   | <b>Item no.: 216-322</b>   |  |
|  | Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | <a href="http://www.wago.com/216-322">www.wago.com/216-322</a> |



check

|  |  |  |
|--|--|--|
|  | <b>Item no.: 735-500</b><br>Test pin; with solder connection for test wire | <a href="http://www.wago.com/735-500">www.wago.com/735-500</a> |
|--|--|--|

Marking accessories

|  |   |  |
|--|---|--|
|  | <b>Item no.: 210-332/350-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive  | <a href="http://www.wago.com/210-332/350-202">www.wago.com/210-332/350-202</a> |
|  | <b>Item no.: 210-332/350-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | <a href="http://www.wago.com/210-332/350-204">www.wago.com/210-332/350-204</a> |
|  | <b>Item no.: 210-332/350-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive | <a href="http://www.wago.com/210-332/350-206">www.wago.com/210-332/350-206</a> |

tools

|  |   |  |
|--|---|--|
|  | <b>Item no.: 210-657</b><br>Operating tool with partially insulated shaft; Blade (3.5 x 0.5) mm; short  | <a href="http://www.wago.com/210-657">www.wago.com/210-657</a> |
|  | <b>Item no.: 210-720</b><br>Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm | <a href="http://www.wago.com/210-720">www.wago.com/210-720</a> |

Downloads

smartDATA

PCB libraries

|  |     |     |          |
|--|-----|-----|----------|
| DesignSpark Library for WAGO PCB Terminal Blocks | 2.1 | ZIP | Download |
|--|-----|-----|----------|



|   |              |         |          |
|---|--------------|---------|----------|
| Compatible with DesignSpark PCB Version 4.x or higher           | Oct 6, 2014  | 22.5 MB |          |
| TARGET Library for WAGO PCB Terminal Blocks                     | 1.1.0        | ZIP     | Download |
| Compatible with TARGET PCB Design Software Version 17.x         | Oct 6, 2014  | 27.1 MB |          |
| EAGLE Library for WAGO PCB Terminal Blocks                      | 2.1          | ZIP     | Download |
| Compatible with EAGLE PCB Design Software Version 6.x or higher | Nov 17, 2017 | 23.9 MB |          |
| <b>CAD data</b>   |              |         |          |
| 3D Download 250-123/000-012                                     |              | URL     | Download |

Subject to changes.