

**Data sheet | Item number: 736-107**

Double-deck PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 14-pole; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray



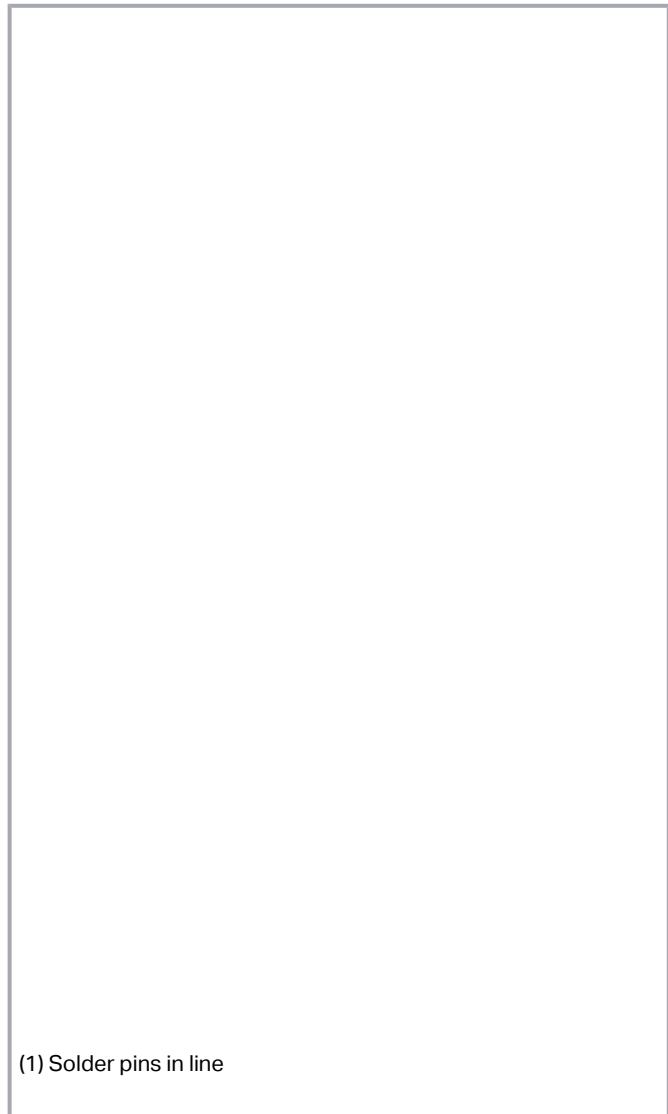
[www.wago.com/736-107](http://www.wago.com/736-107)



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

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## Item description

- PCB terminal strips with screwdriver-actuated CAGE CLAMP<sup>®</sup> connection
- High-density, double-deck design for space-efficient wiring of multiple conductors in confined areas
- Custom marking for all termination levels

## Data

### Notes

Variants:

Other pole numbers

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Other colors

Mixed-color PCB connector strips

Direct marking

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

### Ratings per IEC/EN

| Ratings                       | between the modules   |
|-------------------------------|---|
| 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                 | 21 A  |
| Legend (ratings)              | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Ratings per IEC/EN 2

| Ratings                       | between the decks |
|-------------------------------|-------------------|
| Ratings per 2                 | IEC/EN 60664-1    |
| Rated voltage (III/3) 2       | 320 V             |
| Rated surge voltage (III/3) 2 | 4 kV              |
| Rated voltage (III/2) 2       | 320 V             |
| Rated surge voltage (III/2) 2 | 4 kV              |
| Rated voltage (II/2) 2        | 630 V             |
| Rated surge voltage (II/2) 2  | 4 kV              |
| Rated current 2               | 21 A              |

### 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    |

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## Ratings per CSA

| 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 points          | 14 |
| Total number of potentials | 14 |
| Number of connection types | 1  |
| Number of levels           | 2  |

## Connection 1

|   |  |
|---|--|
| Connection technology                             | CAGE CLAMP®                                  |
| Actuation type                                    | Operating tool                               |
| Solid conductor                                   | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm <sup>2</sup>                 |
| Note (conductor cross-section)                    | 12 AWG: THHN, THWN                           |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inches             |
| Conductor connection direction to PCB             | 45 °   |
| Pole number                                       | 14   |

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5 mm / 0.197 inches      |
| Width                                | 36 mm / 1.417 inches     |
| Height                               | 30.5 mm / 1.201 inches   |
| Height from the surface              | 26.5 mm / 1.043 inches   |
| Depth                                | 21 mm / 0.827 inches     |
| Solder pin length                    | 4 mm                     |
| Solder pin dimensions                | 0.7 x 0.7 mm             |
| Drilled hole diameter with tolerance | 1.3 <sup>(+0.1)</sup> mm |

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



## PCB contact

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| PCB contact                         | THT                                 |
| Solder pin arrangement              | within the terminal block (in-line) |
| Number of solder pins per potential | 1                                   |

## Material Data

Note (material data)

Information on material specifications can be found here

|                             |  |
|-----------------------------|--|
| Color                       | gray                                   |
| Material group              | I                                      |
| Insulation material         | Polyamide (PA66)                       |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | Tin                                    |
| Fire load                   | 0.249 MJ                               |
| Weight                      | 16.3 g                                 |

## Environmental requirements

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

## Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| eCl@ss 10.0           | 27-44-04-01                    |
| eCl@ss 9.0            | 27-44-04-01                    |
| ETIM 8.0              | EC002643                       |
| ETIM 7.0              | EC002643                       |
| PU (SPU)              | 49 pcs                         |
| Packaging type        | box                            |
| Country of origin     | PL                             |
| GTIN                  | 4044918913416                  |
| Customs tariff number | 85369010000                    |

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## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## Approvals / Certificates

### Approvals for marine applications

| Logo | Approval                         | Additional Approval Text | Certificate name |
|------|----------------------------------|--------------------------|------------------|
|      | <b>BV</b><br>Bureau Veritas S.A. | IEC 60998                | 11915/D0<br>BV   |

## Optional accessories

### Testing and measuring

#### Testing accessories

|   |  |
|---|--|
| <b>Item no.: 231-155</b><br>Testing plug module with contact stud; Pin spacing 5 mm / 0.197 in; 2,50 mm <sup>2</sup> ; gray                                     | <a href="http://www.wago.com/231-155">www.wago.com/231-155</a> |
| <b>Item no.: 231-126</b><br>Testing plug module with contact stud; for 280, 736, 737, 738, 780 Series; Pin spacing 5 mm / 0.197 in; 2,50 mm <sup>2</sup> ; gray | <a href="http://www.wago.com/231-126">www.wago.com/231-126</a> |

## Downloads

### Documentation

#### Additional Information

|  |            |                 |          |
|--|------------|-----------------|----------|
|  | 2019 年4月3日 | pdf<br>2.0 MB   | Download |
| Gebrückte Klemmenleisten für Leiterplatten |            | pdf<br>187.6 kB | Download |

## CAD/CAE-Data

### PCB Design

Symbol and Footprint 736-107

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

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- 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
- 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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#### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 736-107 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

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### Environmental Product Compliance

#### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 736-107 | <a href="#">URL</a> | <a href="#">Download</a> |
|--|---------------------|--------------------------|

Double-deck PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 14-pole; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

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### Installation Notes

#### Conductor termination

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Inserting a conductor via 3.5 mm screwdriver.

Screwdriver actuation parallel to conductor entry

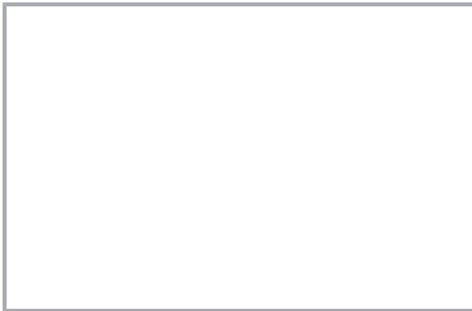
### Installation



Low space requirements due to high-density design  
Double-deck PCB terminal strip – 736 Series



**Possible combination:**  
Double- (736 Series) and triple-deck PCB terminal strips (737 Series) upon request



**Possible combination:**  
Double- (736 Series) and triple-deck PCB terminal strips (737 Series) upon request



**Possible combination:**  
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

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





**Possible combination:**

Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

**Marking**



**Testing**



Testing via contact area above the conductors.

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