

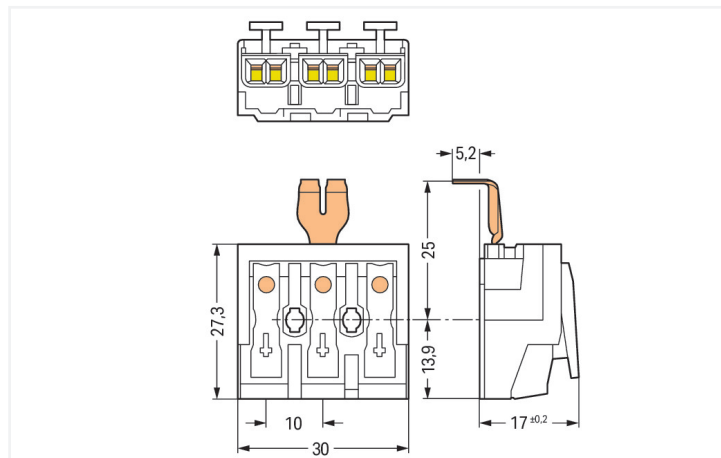
## Data Sheet | Item Number: 294-4223

Lighting connector; push-button, external; with snap-in ground contact; 3-pole; Lighting side: for solid conductors; Inst. side: for all conductor types; max. 2.5 mm<sup>2</sup>; Surrounding air temperature: max 85°C (T85); white

<https://www.wago.com/294-4223>



Color: ■ white



Dimensions in mm

Field-wiring terminal block, 294 Series, white

Easily, quickly and safely connect conductors with this field-wiring terminal block (item number 294-4223). Strip lengths must be between 8 and 9 mm when connecting conductors to this field-wiring terminal block. Featuring four conductor terminals along with Push-in CAGE CLAMP® as well as PUSH WIRE®, this connector is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Our trusted PUSH WIRE® connection offers the fastest method for clamping conductors. It utilizes the conductor's stiffness to overcome the clamping spring's contact force. Dimensions: (30 x 17 x 27.3) mm (width x height x depth). Depending on the conductor type, this field-wiring terminal block is suitable for conductor cross sections ranging from 0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup> on one side and for conductor cross sections from 0.5 mm<sup>2</sup> to 2.5 mm<sup>2</sup> on the other side as well as conductor cross sections from 0.5 mm<sup>2</sup> to 1.5 mm<sup>2</sup> and from 0.5 mm<sup>2</sup> to 0.75 mm<sup>2</sup>.

Tin is used for coating the contact surfaces.

### Electrical data

| Ratings per                     | IEC/EN 60998-1 |     |       |
|---------------------------------|----------------|-----|-------|
| Overvoltage category            | III            | III | II    |
| Pollution degree                | 3              | 2   | 2     |
| Nominal voltage                 | -              | -   | 500 V |
| Rated impulse withstand voltage | -              | -   | 4 kV  |
| Rated current                   | -              | -   | 24 A  |

| Ratings per IEC/EN – Notes |                   |
|----------------------------|-------------------|
| Ratings (note)             | Connection points |

| Ratings per                     | IEC/EN 60998-2-2 |     |       |
|---------------------------------|------------------|-----|-------|
| Overvoltage category            | III              | III | II    |
| Pollution degree                | 3                | 2   | 2     |
| Nominal voltage                 | -                | -   | 500 V |
| Rated impulse withstand voltage | -                | -   | 4 kV  |
| Rated current                   | -                | -   | 24 A  |

| General information |                   |
|---------------------|-------------------|
| Wiring direction    | Side-entry wiring |

## Connection Data

|                            |                    |
|----------------------------|--------------------|
| Clamping units             | 15                 |
| Total number of potentials | 3                  |
| Number of connection types | 4                  |
| PE function                | Snap-in PE contact |

### Connection 1

|  |   |
|--|---|
| Connection type  | External 1                                  |
| Connection technology                                      | Push-in CAGE CLAMP®                         |
| Number of connection points                                | 2   |
| Actuation type   | Push-button                                 |
| Connectable conductor materials                            | Copper                                      |
| Solid conductor  | 0.5 ... 2.5 mm <sup>2</sup> / 18 ... 12 AWG |
| Solid conductor; push-in termination                       | 0.5 ... 2.5 mm <sup>2</sup> / 18 ... 12 AWG |
| Stranded conductor   | 0.5 ... 2.5 mm <sup>2</sup> / 18 ... 14 AWG |
| Fine-stranded conductor                                    | 0.5 ... 2.5 mm <sup>2</sup> / 18 ... 14 AWG |
| Fine-stranded conductor; with insulated ferrule            | 0.5 ... 1.5 mm <sup>2</sup> / 18 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule          | 0.5 ... 1.5 mm <sup>2</sup> / 18 ... 16 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.5 mm <sup>2</sup> / 18 AWG                |
| Strip length   | 8 ... 9 mm / 0.31 ... 0.35 inches           |
| Pole number  | 3   |

### Connection 2

|   |   |
|---|---|
| Connection type                                   | Internal 2                                  |
| Connection technology                             | PUSH WIRE®                                  |
| Number of connection points                       | 1   |
| Actuation type                                    | Push-in                                     |
| Solid conductor                                   | 0.5 ... 2.5 mm <sup>2</sup> / 18 ... 14 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.5 ... 1 mm <sup>2</sup> / 18 ... 16 AWG   |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 1.5 mm <sup>2</sup> / 18 ... 14 AWG |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches           |

### Connection 3

|   |   |
|---|---|
| Connection type                                   | Internal 3                                  |
| Connection technology                             | PUSH WIRE®                                  |
| Number of connection points                       | 1   |
| Actuation type                                    | Push-in                                     |
| Solid conductor                                   | 0.5 ... 1.5 mm <sup>2</sup> / 18 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.5 ... 0.75 mm <sup>2</sup> / 18 AWG       |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 ... 1 mm <sup>2</sup> / 18 AWG          |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches           |

### Connection 4

|                             |                                       |
|-----------------------------|---------------------------------------|
| Connection type             | Internal 4                            |
| Connection technology       | PUSH WIRE®                            |
| Number of connection points | 1                                     |
| Actuation type              | Push-in                               |
| Solid conductor             | 0.5 ... 0.75 mm <sup>2</sup> / 18 AWG |
| Strip length                | 8 ... 9 mm / 0.31 ... 0.35 inches     |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches   |
| Width       | 30 mm / 1.181 inches   |
| Height      | 17 mm / 0.669 inches   |
| Depth       | 27.3 mm / 1.075 inches |

### Mechanical data

|               |                                 |
|---------------|---------------------------------|
| Marking       | N <sup>-</sup> ⊖-L <sup>-</sup> |
| Mounting type | without snap-in mounting feet   |

### Material data

|                                    |  |
|------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | white  |
| Material group                     | IIIa   |
| Insulation material (main housing) | Polycarbonate (PC)   |
| 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                          | 0.138 MJ   |
| Halogen-free                       | Yes  |
| Weight                             | 10.2 g   |

### Environmental requirements

|                       |        |
|-----------------------|--------|
| Temperature stability | 120 °C |
| T marking             | T85    |

### Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 8 (Misc. Chassis Mount Blocks) |
| PU (SPU)              | 500 pcs                        |
| Packaging type        | Bag                            |
| Country of origin     | PL                             |
| GTIN                  | 4050821097877                  |
| Customs tariff number | 85369010000                    |

### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 39121409             |
| eCl@ss 10.0 | 27-14-11-06          |
| eCl@ss 9.0  | 27-14-11-06          |
| ETIM 9.0    | EC001284             |
| ETIM 10.0   | EC001284             |
| ECCN        | NO US CLASSIFICATION |

### Environmental Product Compliance

|   |                                      |
|---|--------------------------------------|
| RoHS Compliance Status                    | Compliant, No Exemption              |
| SCIP notification number (Austria)        | 084884b9-7f2a-4615-91ea-ece14adad1bf |
| SCIP notification number (Belgium)        | 3c5418f1-579f-4de2-b23a-cdfb6e9d92b4 |
| SCIP notification number (Bulgaria)       | a083e421-5b24-4a99-b6d2-3c46ac43ffae |
| SCIP notification number (Czech Republic) | 80b94f89-b172-4822-bf83-fa136d9fcd1f |
| SCIP notification number (Denmark)        | ea6b3338-b218-4183-bc94-e57ac4afcf9f |
| SCIP notification number (Finland)        | 5d4d0295-8b4f-4e7a-bdd5-ed9556e749bd |
| SCIP notification number (France)         | bdb0d80b-bdf2-49e0-ae68-5b98936720b4 |
| SCIP notification number (Germany)        | c4f7c9ce-8cbd-4ece-8dd6-ea4db84dfff9 |
| SCIP notification number (Hungary)        | 2f8ce9d1-8592-4334-a154-6a068486b3c5 |
| SCIP notification number (Italy)          | 2dc43b75-4c0c-4a6f-ae63-075b1a615c72 |
| SCIP notification number (Netherlands)    | 4b7a976c-6cf7-40ea-8b33-52fe275608f3 |
| SCIP notification number (Poland)         | 5d978e6c-394e-4b7c-8fe3-4a424690527e |
| SCIP notification number (Romania)        | 35ebd257-6bc4-41f1-9295-a759ee06f3a3 |

**Environmental Product Compliance**

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| SCIP notification number (Sweden) | 936d5fbf-a21f-4291-8e8a-d17a8870b1e9 |
|-----------------------------------|--------------------------------------|

**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



| Approval                            | Standard | Certificate Name |
|-------------------------------------|----------|------------------|
| ENEC 05<br>DEKRA Certification B.V. | EN 60998 | 2128791.01       |

| Approval   | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |

**Downloads**

**Environmental Product Compliance**

| Compliance Search   |
|---|
| Environmental Product Compliance 294-4223 <a href="#">↓</a> |

**Documentation**

| Bid Text |            |                 |                   |
|----------|------------|-----------------|-------------------|
| 294-4223 | 19.02.2019 | xml<br>5.58 KB  | <a href="#">↓</a> |
| 294-4223 | 13.06.2017 | doc<br>28.00 KB | <a href="#">↓</a> |

**CAD/CAE-Data**

| CAD data                                |
|---|
| 2D/3D Models 294-4223 <a href="#">↓</a> |

| CAE data                                  |
|---|
| WSCAD Universe 294-4223 <a href="#">↓</a> |
| ZUKEN Portal 294-4223 <a href="#">↓</a>   |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Strain relief

##### 1.1.1.1 Strain relief



**Item No.: 294-370**

Strain relief; for 294 Series; with snap-in mounting feet; white

**Item No.: 294-375**

Strain relief; for 294 Series; without snap-in mounting feet; white

##### 1.1.1.2 Strain relief plate



**Item No.: 294-364**

Strain relief plate; for 294 Series; for multi-core cables; 3- to 5-pole; with secured clamp; white

**Item No.: 294-384**

Strain relief plate; for 294 Series; for single strands; 3- to 5-pole; with secured clamp; white

### 1.1.2 Tool

#### 1.1.2.2 Operating tool

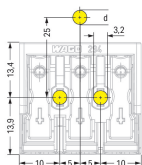


**Item No.: 206-294**

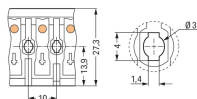
Disconnection tool; green

## Installation Notes

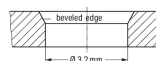
### Installation



3-pole – with snap-in ground contact,  $d = 4.9 \text{ mm}$

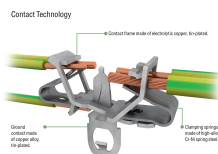


Mounting hole for screw  
**Notice:** The maximum thread diameter for self-tapping screws is 3 mm.



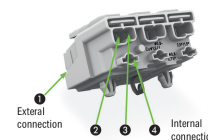
Hole for screw mount  
**Notice:** The maximum thread diameter for self-tapping screws is 3 mm.

## Conductor termination



| EUROPE                               |
|--------------------------------------|
| 1 x 0.5 ... 2.5 mm <sup>2</sup> "s"  |
| 1 x 0.5 ... 1.5 mm <sup>2</sup> "s"  |
| 1 x 0.5 ... 0.75 mm <sup>2</sup> "s" |
| AMERICA                              |
| 1 x AWG 18 ... 14 "s"                |
| 1 x AWG 18 ... 16 "s"                |
| 1 x AWG 18 "s"                       |
| JAPAN                                |
| 1 x 0.8 ... 1.6 mm diam. "s"         |
| 1 x 0.8 ... 1 mm diam. "s"           |
| 1 x 0.8 mm diam. "s"                 |

| EUROPE  |
|---|
| 2 x 0.5 ... 2.5 mm <sup>2</sup> "s, str, f-str" |
| AMERICA   |
| 2 x AWG 18 ... 12 "s"                           |
| 2 x AWG 18 ... 14 "s, f-str"                    |
| JAPAN   |
| 2 x 0.8 ... 2 mm diam. "s"                      |
| 2 x 0.5 ... 2 mm <sup>2</sup> "str, f-str"      |



**Internal connection:**  
PUSH WIRE® for internal wiring with solid conductors

**External connection:**  
Push-in CAGE CLAMP® for field-wiring with all conductor types

### Conductor termination



Terminating five conductors per pole – solid and fine-stranded.

