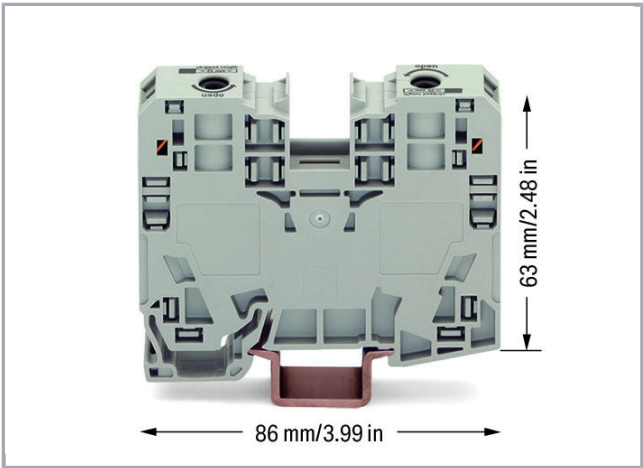
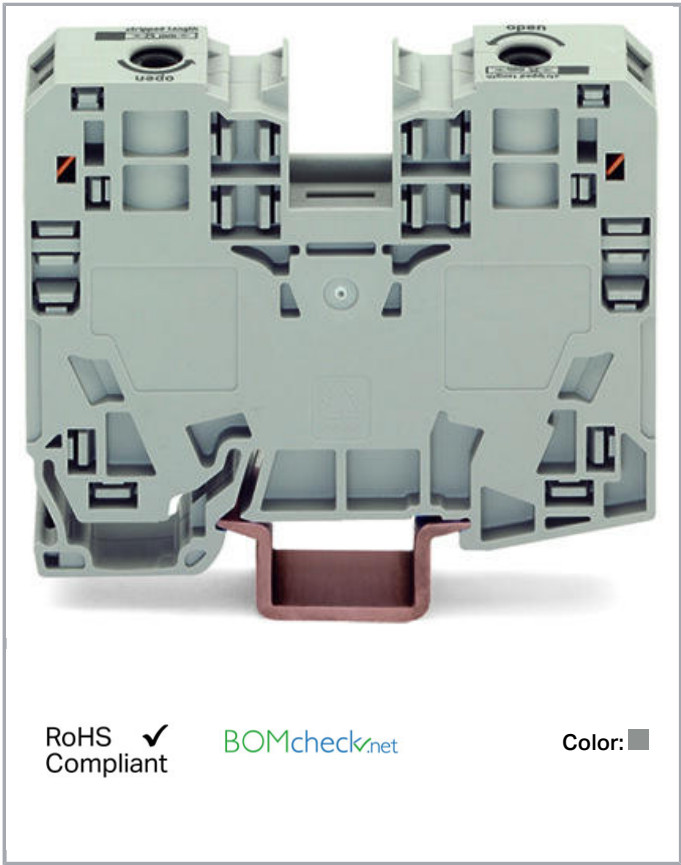


**Data sheet | Item number: 285-135**  
2-conductor through terminal block; 35 mm²; lateral marker slots; only for  
DIN 35 x 15 rail; POWER CAGE CLAMP; 35,00 mm²; gray

[www.wago.com/285-135](http://www.wago.com/285-135)



**Data**  
**Electrical data**

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

| Ratings per                 | IEC/EN 60947-7-1                                          |
|-----------------------------|-----------------------------------------------------------|
| Nominal voltage (III/3)     | 1000 V                                                    |
| Rated surge voltage (III/3) | 8 kV                                                      |
| Rated current               | 125 A                                                     |
| Legend (ratings)            | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

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

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## Connection data

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Connection technology             | POWER CAGE CLAMP                        |
| Actuation type                    | Operating tool                          |
| Connectable conductor materials   | Copper                                  |
| Solid conductor                   | 6 ... 35 mm <sup>2</sup> / 10 ... 2 AWG |
| Stranded conductor                | 6 ... 35 mm <sup>2</sup> / 10 ... 2 AWG |
| Fine-stranded conductor           | 6 ... 35 mm <sup>2</sup> / 10 ... 2 AWG |
| Strip length                      | 25 mm / 0.98 inch                       |
| Total number of connection points | 2                                       |
| Total number of potentials        | 1                                       |
| Number of levels                  | 1                                       |
| Wiring type                       | Side-entry wiring                       |

## Geometrical Data

|                                    |                    |
|------------------------------------|--------------------|
| Width                              | 16 mm / 0.63 inch  |
| Height from upper-edge of DIN-rail | 63 mm / 2.48 inch  |
| Depth                              | 86 mm / 3.386 inch |

## Mechanical data

|               |                 |
|---------------|-----------------|
| Design        | horizontal type |
| Mounting type | DIN-35 rail     |
| Marking level | Side marking    |

## Material Data

|                     |                      |
|---------------------|----------------------|
| Color               | gray                 |
| Insulation material | Polyamide 66 (PA 66) |
| Fire load           | 1.246 MJ             |
| Weight              | 79.3 g               |

## Commercial data

|                       |                                  |
|-----------------------|----------------------------------|
| Product Group         | 1 (Rail Mounted Terminal Blocks) |
| Packaging type        | BOX                              |
| Country of origin     | PL                               |
| GTIN                  | 4045454507381                    |
| Customs tariff number | 85369010000                      |

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## Approvals / Certificates

### Country specific Approvals

| Logo                                                                             | Approval                                     | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.       | EN 60947                 | NTR NL-7707      |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2 No. 158            | 1151144          |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 60947                 | 71-101911        |

### Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|------------------|
|    | <b>ABS</b><br>American Bureau of Shipping               | EN 60947                 | 20-HG1941090-PDA |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001V2       |
|  | <b>LR</b><br>Lloyds Register                            | EN 60947                 | 91/20112 (E9)    |

## Counterpart

## Compatible products

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

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## ferrule

|                                                                                  |                                                                                                                                                                                     |                                                                |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 216-413</b><br>Ferrule; Sleeve for 25 mm <sup>2</sup> / AWG 4; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | <a href="http://www.wago.com/216-413">www.wago.com/216-413</a> |
|  | <b>Item no.: 216-414</b><br>Ferrule; Sleeve for 35 mm <sup>2</sup> / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | <a href="http://www.wago.com/216-414">www.wago.com/216-414</a> |

## potential distribution

|                                                                                  |                                                                                                                                 |                                                                |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|   | <b>Item no.: 283-407</b><br>Power tap; with 500 mm cable; for 16 mm <sup>2</sup> (283/783 Series) and 35 mm <sup>2</sup> ; gray | <a href="http://www.wago.com/283-407">www.wago.com/283-407</a> |
|  | <b>Item no.: 285-427</b><br>Power tap; for 35 mm <sup>2</sup> high-current tbs; Module width 8 mm; 6,00 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/285-427">www.wago.com/285-427</a> |

## protection

|                                                                                  |                                                                                                                                               |                                                                |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 285-421</b><br>Finger guard; touchproof cover protects unused conductor entries; for 35 mm <sup>2</sup> high-current tbs; yellow | <a href="http://www.wago.com/285-421">www.wago.com/285-421</a> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

## Protective Warning Marker

|                                                                                   |                                                                                                |                                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 285-420</b><br>Protective warning marker; with high-voltage symbol, black; yellow | <a href="http://www.wago.com/285-420">www.wago.com/285-420</a> |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

## Jumper

|                                                                                    |                                                                                                                                                    |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 285-430</b><br>Step-down jumper; insulated; from 285-13x to 2010 and 2016 Series TOPJOB®S terminal blocks; Nominal current 90 A; gray | <a href="http://www.wago.com/285-430">www.wago.com/285-430</a> |
|  | <b>Item no.: 285-435</b><br>Adjacent jumper; insulated; Nominal current 85 A; gray                                                                 | <a href="http://www.wago.com/285-435">www.wago.com/285-435</a> |

## check

|                                                                                    |                                                                                          |                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 283-404</b><br>Test plug adapter; 11.6 mm wide; for 4 mm Ø test plugs; gray | <a href="http://www.wago.com/283-404">www.wago.com/283-404</a> |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------|

## Carrier rail

|                                                                                    |                                                                                                                                |                                                                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715             | <a href="http://www.wago.com/210-114">www.wago.com/210-114</a> |
|  | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715           | <a href="http://www.wago.com/210-118">www.wago.com/210-118</a> |
|  | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715               | <a href="http://www.wago.com/210-197">www.wago.com/210-197</a> |
|                                                                                    | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper- | <a href="http://www.wago.com/210-198">www.wago.com/210-198</a> |

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colored

**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715

[www.wago.com/210-506](http://www.wago.com/210-506)**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715

[www.wago.com/210-508](http://www.wago.com/210-508)**Marking accessories****Item no.: 2009-110**

Marking strips; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)**Item no.: 2009-115/000-002**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/2009-115/000-002](http://www.wago.com/2009-115/000-002)**Item no.: 2009-115/000-005**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

[www.wago.com/2009-115/000-005](http://www.wago.com/2009-115/000-005)**Item no.: 2009-115/000-006**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/2009-115/000-006](http://www.wago.com/2009-115/000-006)**Item no.: 2009-115/000-007**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[www.wago.com/2009-115/000-007](http://www.wago.com/2009-115/000-007)**Item no.: 2009-115/000-012**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[www.wago.com/2009-115/000-012](http://www.wago.com/2009-115/000-012)**Item no.: 2009-115/000-017**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

[www.wago.com/2009-115/000-017](http://www.wago.com/2009-115/000-017)**Item no.: 2009-115/000-023**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

[www.wago.com/2009-115/000-023](http://www.wago.com/2009-115/000-023)**Item no.: 2009-115/000-024**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[www.wago.com/2009-115/000-024](http://www.wago.com/2009-115/000-024)**Item no.: 249-105**

Group marker carrier; gray

[www.wago.com/249-105](http://www.wago.com/249-105)**Item no.: 285-442**

Adaptor; gray

[www.wago.com/285-442](http://www.wago.com/285-442)

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

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**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/793-501](http://www.wago.com/793-501)**Item no.: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type; yellow

[www.wago.com/793-501/000-002](http://www.wago.com/793-501/000-002)**Item no.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red

[www.wago.com/793-501/000-005](http://www.wago.com/793-501/000-005)**Item no.: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/793-501/000-006](http://www.wago.com/793-501/000-006)**Item no.: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/793-501/000-007](http://www.wago.com/793-501/000-007)**Item no.: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type; orange

[www.wago.com/793-501/000-012](http://www.wago.com/793-501/000-012)**Item no.: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/793-501/000-017](http://www.wago.com/793-501/000-017)**Item no.: 793-501/000-023**

WMB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/793-501/000-023](http://www.wago.com/793-501/000-023)**Item no.: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/793-501/000-024](http://www.wago.com/793-501/000-024)**Item no.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/793-5501](http://www.wago.com/793-5501)**Item no.: 793-5501/000-002**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/793-5501/000-002](http://www.wago.com/793-5501/000-002)**Item no.: 793-5501/000-005**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

[www.wago.com/793-5501/000-005](http://www.wago.com/793-5501/000-005)**Item no.: 793-5501/000-006**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/793-5501/000-006](http://www.wago.com/793-5501/000-006)**Item no.: 793-5501/000-007**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[www.wago.com/793-5501/000-007](http://www.wago.com/793-5501/000-007)

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**Item no.: 793-5501/000-012**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[www.wago.com/793-5501/000-012](http://www.wago.com/793-5501/000-012)**Item no.: 793-5501/000-014**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

[www.wago.com/793-5501/000-014](http://www.wago.com/793-5501/000-014)**Item no.: 793-5501/000-017**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

[www.wago.com/793-5501/000-017](http://www.wago.com/793-5501/000-017)**Item no.: 793-5501/000-023**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

[www.wago.com/793-5501/000-023](http://www.wago.com/793-5501/000-023)**Item no.: 793-5501/000-024**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[www.wago.com/793-5501/000-024](http://www.wago.com/793-5501/000-024)**assembling****Item no.: 210-148**

Angled support bracket; without screw

[www.wago.com/210-148](http://www.wago.com/210-148)**Item no.: 249-117**

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-117](http://www.wago.com/249-117)**Item no.: 249-197**

Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-197](http://www.wago.com/249-197)**tools****Item no.: 210-721**

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft

[www.wago.com/210-721](http://www.wago.com/210-721)**Downloads****Documentation****Bid Text**

|                  |              |         |          |
|------------------|--------------|---------|----------|
| 285-135          | Jan 4, 2018  | doc     | Download |
| doc - Datei      |              | 24.1 kB |          |
| 285-135          | Feb 19, 2019 | xml     | Download |
| GAEB X81 - Datei |              | 3.3 kB  |          |

**CAD/CAE-Data****CAD data**

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2D/3D Models 285-135

[URL](#)

[Download](#)

#### CAE data

EPLAN Data Portal 285-135

[URL](#)

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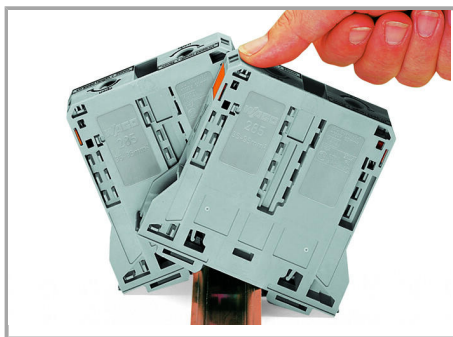
WSCAD Universe 285-135

[URL](#)

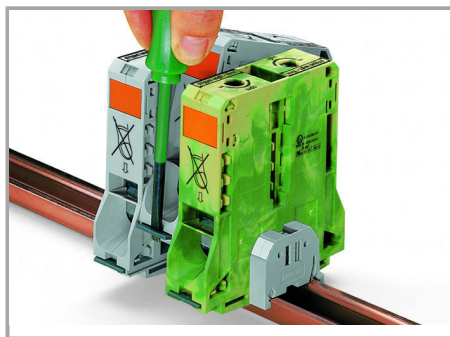
[Download](#)

## Installation Notes

### Installation

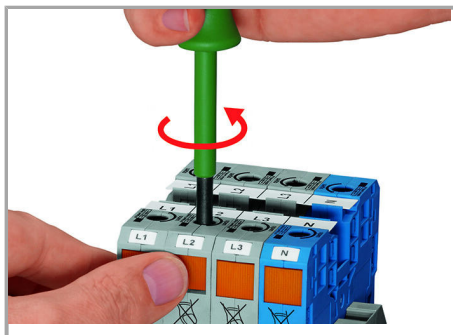


Snapping a terminal block onto the DIN-rail.

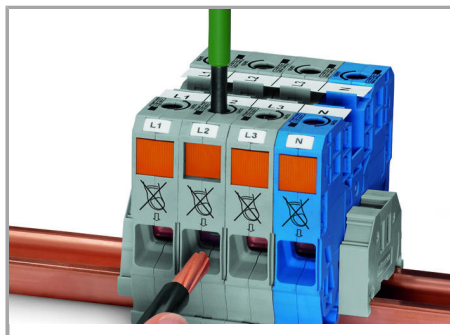


Removing a terminal block from the assembly.

### Conductor termination



Conductor termination – step 1

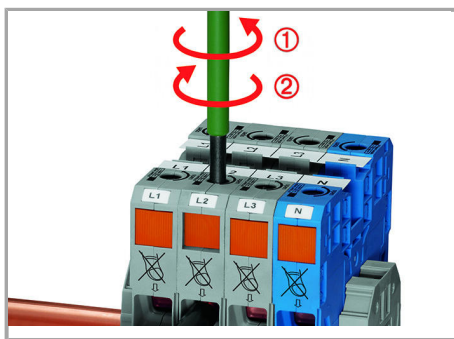


Conductor termination – step 2

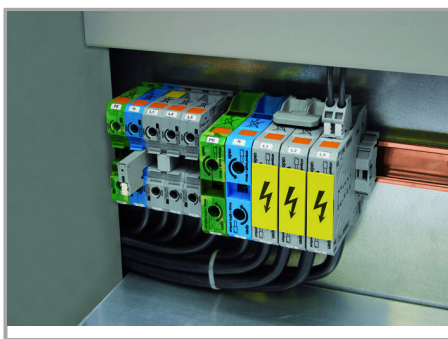
Rotate the operating tool (5.5 mm blade width) counter-clockwise. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.

Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.

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



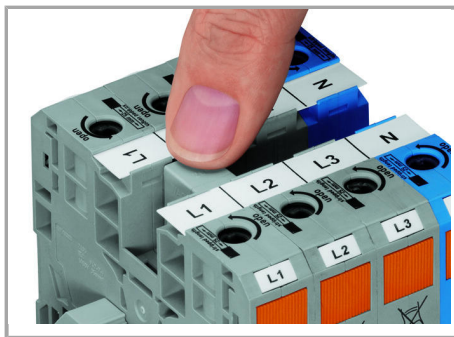
Conductor termination – step 3



Side-entry wiring means that even larger conductors, which have limited flexibility, can be easily connected.

A small counter-clockwise rotation closes the clamp, securing conductor. When unlocked, allow operating tool to rotate clockwise to securely terminate the conductor.

#### Commoning



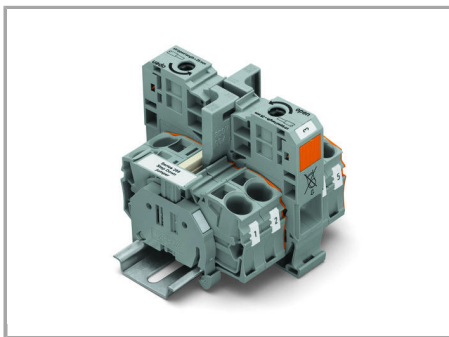
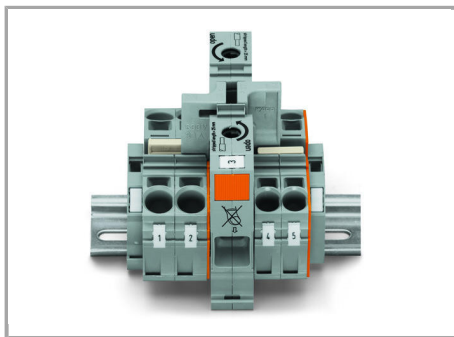
Commoning adjacent terminal blocks using a centrally positioned push-in jumper.



Slide the marking strip laterally to remove the jumper.

#### Commoning

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



Commoning 35 mm<sup>2</sup> (2 AWG) POWER CAGE CLAMP Terminal Blocks with 10/16 mm<sup>2</sup> (8/6 AWG) 2010 and 2016 Series TOPJOP® S Terminal Blocks using step-down jumpers (not valid for 2016-76xx and 2016-77xx).

Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drops may be problematic. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

**In this case, pay attention that:**

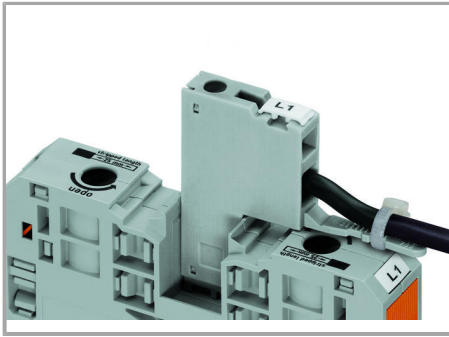
The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.

#### Voltage Tap

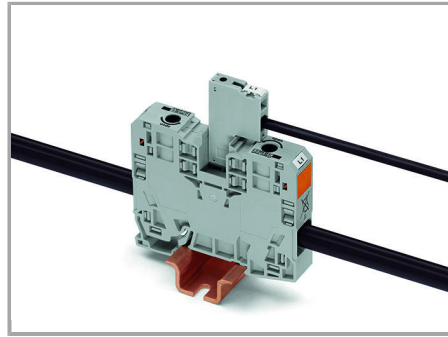
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Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

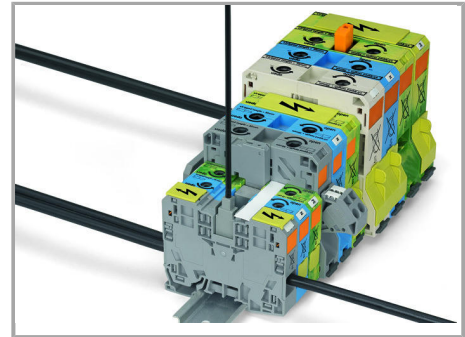
Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



The power tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate.

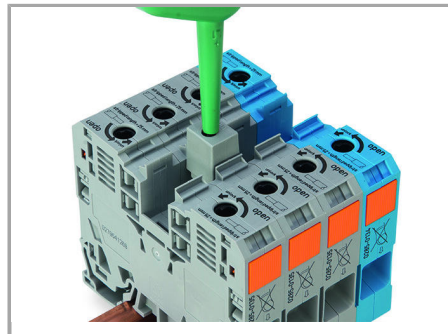
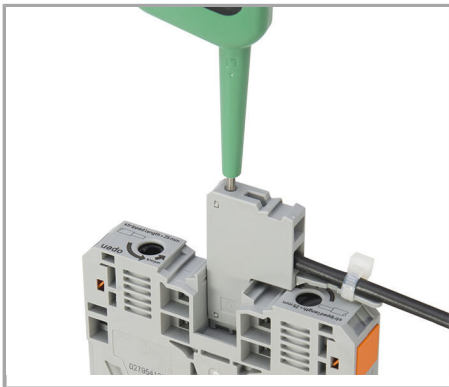


The power tap is inserted into the jumper contact slot.



Always push power tap (283-407) down into the terminal block until fully inserted!

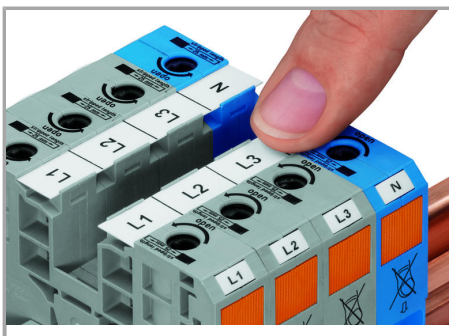
## Testing



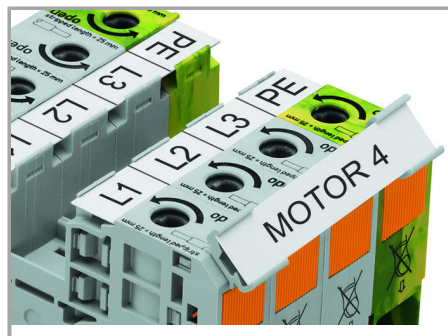
Testing with test plug adapter (283-404)

## Testing

## Marking



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm<sup>2</sup> high-current terminal blocks.



Marker carrier for marking strips (2009-110) or 2 x WMB markers for 285-13x, 285-15x and 285-19x terminal blocks

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



## Product family

### POWER CAGE CLAMP

[Show all products from the family](#)

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

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WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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