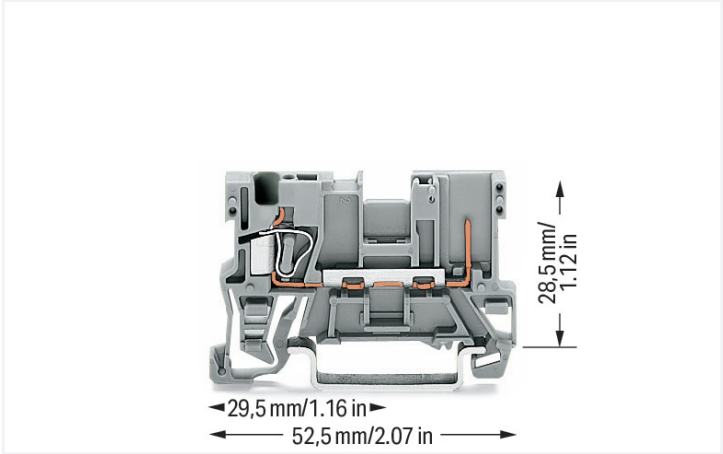
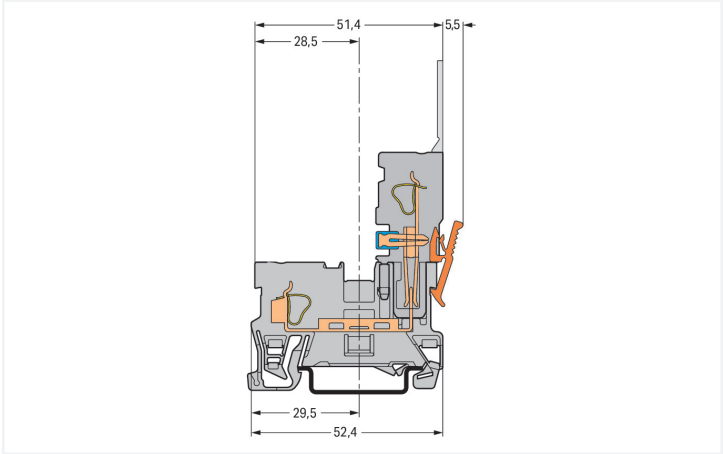
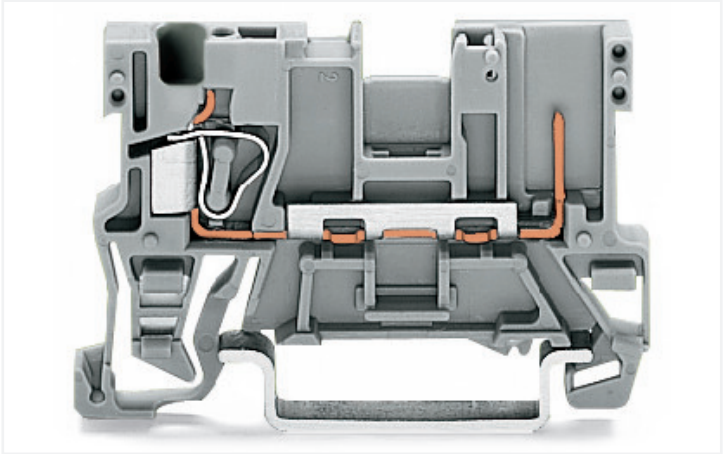




Color: ■ gray



Carrier terminal block

**Electrical data**

| Ratings per          | IEC/EN 60947-7-1 |     |    |
|----------------------|------------------|-----|----|
| Overvoltage category | III              | III | II |
| Pollution degree     | 3                | 2   | 2  |
| Nominal voltage      | 500 V            | -   | -  |
| Rated surge voltage  | 6 kV             | -   | -  |
| Rated current        | 32 A             | -   | -  |

| Power Loss                                                   |         |
|--------------------------------------------------------------|---------|
| Power loss, per pole (potential)                             | 1.024 W |
| Rated current I <sub>N</sub> for specified power loss        | 32 A    |
| Resistance value for specified, current-dependent power loss | 0.001 Ω |

**Connection data**

|                            |   |
|----------------------------|---|
| Connection points          | 1 |
| Total number of potentials | 1 |
| Number of levels           | 1 |

| Connection 1                    |                                            |
|---------------------------------|--------------------------------------------|
| Connection technology           | CAGE CLAMP®                                |
| Number of connection points     | 1                                          |
| Actuation type                  | Operating tool                             |
| Connectable conductor materials | Copper                                     |
| Nominal cross-section           | 4 mm <sup>2</sup> / 12 AWG                 |
| Solid conductor                 | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor         | 0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG |
| Strip length                    | 8 ... 9 mm / 0.31 ... 0.35 inches          |
| Wiring direction                | Front-entry wiring                         |



| Connection 2                  |  |   |
|-------------------------------|--|---|
| Number of connection points 2 |  | 1 |

| Physical data                     |  |                        |
|-----------------------------------|--|------------------------|
| Width                             |  | 5 mm / 0.197 inches    |
| Height                            |  | 52.5 mm / 2.067 inches |
| Depth from upper-edge of DIN-rail |  | 28.5 mm / 1.122 inches |

| Mechanical data |  |                 |
|-----------------|--|-----------------|
| Design          |  | horizontal type |
| Mounting type   |  | DIN-35 rail     |
| Marking level   |  | Center marking  |

| Material data               |  |                                                                                                                        |
|-----------------------------|--|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        |  | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       |  | gray                                                                                                                   |
| Material group              |  | I                                                                                                                      |
| Insulation material         |  | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 |  | V0                                                                                                                     |
| Fire load                   |  | 0.101 MJ                                                                                                               |
| Weight                      |  | 5.3 g                                                                                                                  |

| Environmental requirements       |  |                 |
|----------------------------------|--|-----------------|
| Processing temperature           |  | -35 ... +85 °C  |
| Continuous operating temperature |  | -60 ... +105 °C |

| Commercial data       |  |                   |
|-----------------------|--|-------------------|
| Product Group         |  | 18 (X-COM-System) |
| eCl@ss 10.0           |  | 27-14-11-20       |
| eCl@ss 9.0            |  | 27-14-11-20       |
| ETIM 8.0              |  | EC000897          |
| ETIM 7.0              |  | EC000897          |
| PU (SPU)              |  | 100 pcs           |
| Packaging type        |  | Box               |
| Country of origin     |  | CN                |
| GTIN                  |  | 4045454871697     |
| Customs tariff number |  | 85366990990       |

| Environmental Product Compliance |  |                         |
|----------------------------------|--|-------------------------|
| RoHS Compliance Status           |  | Compliant, No Exemption |



Approvals / Certificates

General approvals



| Approval                              | Standard | Certificate Name |
|---------------------------------------|----------|------------------|
| CCA<br>DEKRA Certification B.V.       | EN 60947 | NTR NL-7626      |
| CSA<br>CSA Group                      | C22.2    | 1101144          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 2190419.01       |
| UL<br>Underwriters Laboratories Inc.  | UL 1977  | E 45171          |
| UR<br>Underwriters Laboratories Inc.  | UL 1059  | E45172           |

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



| Approval                                              | Standard | Certificate Name |
|-------------------------------------------------------|----------|------------------|
| ABS<br>American Bureau of Ship-<br>ping               | EN 60947 | 20-HG1941090-PDA |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd | -        | TAE00001V2       |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 769-176 |



Documentation

| Additional Information |
|------------------------|
| Technical Section      |

pdf  
2240.62 KB



| Bid Text        |
|-----------------|
| 769-176         |
| 19.02.2019      |
| xml<br>3.26 KB  |
| 769-176         |
| 02.10.2017      |
| doc<br>24.50 KB |





| CAD/CAE-Data                                                                                           |                                                                                                               |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| CAD data                                                                                               | CAE data                                                                                                      |
| 2D/3D Models 769-176  | EPLAN Data Portal 769-176  |
|                                                                                                        | WSCAD Universe 769-176     |
|                                                                                                        | ZUKEN Portal 769-176       |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



|                                                                                                                                                                      |                                                                                                                                                        |                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 769-101/022-000</a><br>1-conductor female connector, angled;<br>CAGE CLAMP®; 4 mm²; Pin spacing 5 mm;<br>1-pole; coding finger; 4,00 mm²; gray | <a href="#">Item No.: 769-101</a><br>1-conductor female connector; CAGE<br>CLAMP®; 4 mm²; Pin spacing 5 mm; 1-po-<br>le; coding finger; 4,00 mm²; gray | <a href="#">Item No.: 769-121</a><br>2-conductor female connector; CAGE<br>CLAMP®; 4 mm²; Pin spacing 5 mm; 1-po-<br>le; coding finger; 4,00 mm²; gray |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



|                                                                                        |                                                                                          |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 769-307</a><br>End and intermediate plate; 1.1 mm thick;<br>gray | <a href="#">Item No.: 769-308</a><br>End and intermediate plate; 1.1 mm thick;<br>orange |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



|                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Item No.: 769-435</a><br>Coding pin; for coding of female plugs; for<br>carrier terminal blocks / male connectors;<br>orange |
|------------------------------------------------------------------------------------------------------------------------------------------|

### 1.3.2 Cover

#### 1.3.2.1 Cover



**Item No.: 769-438**

Pin cover; with marker slot for miniature WSB; gray



**Item No.: 769-439**

Pin cover; with marker slot for miniature WSB; orange

### 1.3.3 DIN-rail

#### 1.3.3.1 Mounting accessories



**Item No.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



**Item No.: 210-508**

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



**Item No.: 210-197**

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



**Item No.: 210-114**

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



**Item No.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



**Item No.: 210-112**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored



**Item No.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



**Item No.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-505**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

### 1.3.4 Ferrule

#### 1.3.4.1 Ferrule



**Item No.: 216-301**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-201**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-101**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-202**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-203**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; un-insulated; electro-tin plated



**Item No.: 216-204**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-104**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-206**

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; blue

### 1.3.5 Installation

#### 1.3.5.1 Mounting accessories



**Item No.: 209-106**

Mounting carrier; for isolated mounting on DIN 35 rails; gray



**Item No.: 249-116**

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

### 1.3.6 Insulation stop

#### 1.3.6.1 Insulation stop



**Item No.: 769-470**

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white



**Item No.: 769-471**

Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray



**Item No.: 769-472**

Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; dark gray

### 1.3.7 Jumper

#### 1.3.7.1 Jumper



**Item No.: 280-402**

Jumper; insulated; gray



**Item No.: 280-409**

Jumper; insulated; gray



**Item No.: 780-452**

Staggered jumper; from 1 to 2; insulated; gray



**Item No.: 780-453**

Staggered jumper; from 1 to 3; insulated; gray



**Item No.: 780-454**

Staggered jumper; from 1 to 4; insulated; gray



**Item No.: 780-455**

Staggered jumper; from 1 to 5; insulated; gray



**Item No.: 780-456**

Staggered jumper; from 1 to 6; insulated; gray



**Item No.: 780-457**

Staggered jumper; from 1 to 7; insulated; gray



**Item No.: 780-458**

Staggered jumper; from 1 to 8; insulated; gray

### 1.3.8 Marking

#### 1.3.8.1 Marker



**Item No.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 248-501**

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

1.3.9 Protective warning marker

1.3.9.1 Cover



**Item No.: 280-415**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.3.10 Push-in type wire jumper

1.3.10.1 Jumper



**Item No.: 249-126**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; black



**Item No.: 249-123**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 180 mm long; black



**Item No.: 249-127**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; black



**Item No.: 249-125**  
Push-in type wire jumper; insulated; 60 mm long; black

1.3.11 Test and measurement

1.3.11.1 Testing accessories



**Item No.: 280-419**  
Spacer module; modular; bridging commoned terminal blocks; gray



**Item No.: 280-404**  
Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup> tbs; gray



**Item No.: 280-418**  
Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray



**Item No.: 210-136**  
Test plug; 2 mm Ø; with 500 mm cable; red

1.3.12 Tool

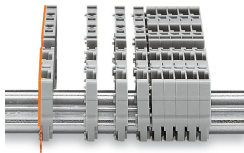
1.3.12.1 Operating tool



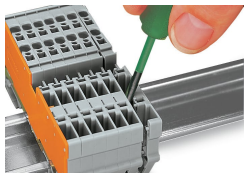
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

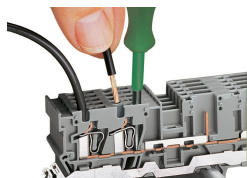


Snap individual carrier terminal blocks on to the DIN-rail and slide together.



Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

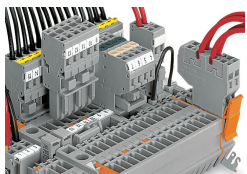
## Conductor termination



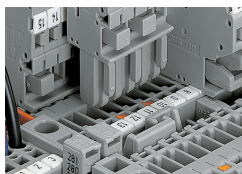
### CAGE CLAMP® connection

Carrier terminal block: Insert/remove conductor via operating tool (3.5 x 0.5 mm blade).

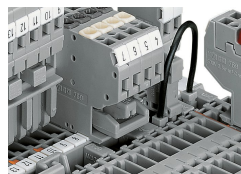
## Commoning



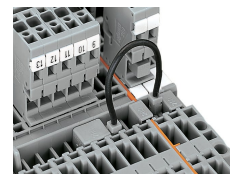
Commoning with adjacent or staggered jumpers.  
Push jumpers down until fully inserted.



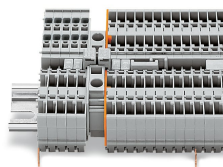
Commoning carrier terminal blocks via staggered jumpers.



Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.

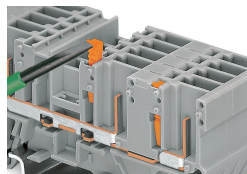


Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



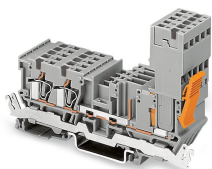
Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.

## Coding

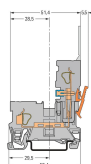


Snap coding pin in proper direction on carrier terminal block.  
Shown: Coding pin removal from carrier terminal block.

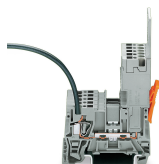
## Locking system



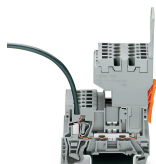
Securing a female plug via locking lever on the terminal block side.



Carrier terminal block



Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



\*1-conductor angled female plug is also possible!