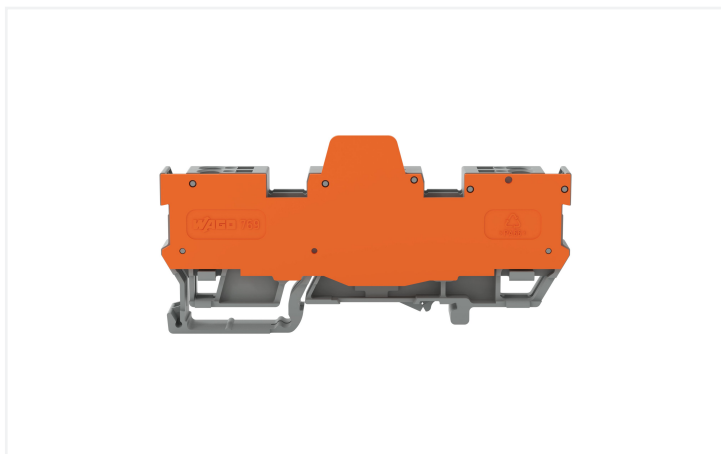


## Data Sheet | Item Number: 769-192/769-319

1-conductor/1-conductor terminal block for pluggable modules; 4-pole; with 2-conductor terminal blocks; with 2 jumper positions; with orange separator plate; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CAGE CLAMP®; 4,00 mm<sup>2</sup>; gray

<https://www.wago.com/769-192/769-319>



Color: ■ gray

### Electrical data

#### Ratings per IEC/EN

|                               |   |
|-------------------------------|---|
| Nominal voltage (III/3)       | 400 V   |
| Rated impulse voltage (III/3) | 6 kV  |
| Rated current                 | 16 A  |
| Legend (ratings)              | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

#### Power Loss

|  |         |
|--|---------|
| Power loss, per pole (potential)                             | 0.256 W |
| Rated current $I_N$ for specified power loss                 | 16 A    |
| Resistance value for specified, current-dependent power loss | 0.001 Ω |

### Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 4 |
| Total number of potentials | 4 |
| Number of levels           | 1 |

#### Connection 1

|                                 |  |
|---------------------------------|--|
| Connection technology           | CAGE CLAMP®                                |
| 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          |
| Pole number                     | 4  |
| Wiring direction                | Front-entry wiring                         |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 11.1 mm / 0.437 inches |
| Height                            | 87.5 mm / 3.445 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                   | 0.402 MJ   |
| Weight                      | 19.9 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)              | 10 pcs            |
| Packaging type        | Box               |
| Country of origin     | DE                |
| GTIN                  | 4017332095334     |
| Customs tariff number | 85369010000       |

### 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 Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<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<br>769-192/769-319 | <a href="#">↓</a> |

Documentation

| Additional Information |                   |                   |
|------------------------|-------------------|-------------------|
| Technical Section      | pdf<br>2240.62 KB | <a href="#">↓</a> |

| Bid Text        |            |                 |                   |
|-----------------|------------|-----------------|-------------------|
| 769-192/769-319 | 19.02.2019 | xml<br>3.35 KB  | <a href="#">↓</a> |
| 769-192/769-319 | 04.10.2017 | doc<br>25.50 KB | <a href="#">↓</a> |

CAD/CAE-Data

| CAD data                        |                   |
|---------------------------------|-------------------|
| 2D/3D Models<br>769-192/769-319 | <a href="#">↓</a> |

| CAE data                             |                   |
|--------------------------------------|-------------------|
| EPLAN Data Portal<br>769-192/769-319 | <a href="#">↓</a> |
| WSCAD Universe<br>769-192/769-319    | <a href="#">↓</a> |
| ZUKEN Portal<br>769-192/769-319      | <a href="#">↓</a> |

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 End plate

##### 1.1.1.1 End plate



**Item No.: 769-317**  
End and intermediate plate; 1.1 mm thick; gray



**Item No.: 769-318**  
End and intermediate plate; 1.1 mm thick; orange

### 1.2 Optional Accessories

#### 1.2.1 Coding

##### 1.2.1.1 Coding



**Item No.: 769-435**  
Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

#### 1.2.2 Cover

##### 1.2.2.1 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

#### 1.2.3 DIN-rail

##### 1.2.3.1 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

## 1.2.4 End plate

### 1.2.4.1 End plate



**Item No.: 769-319**

Separator plate; 1.1 mm thick; oversized; orange

## 1.2.5 Ferrule

### 1.2.5.1 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

## 1.2.6 Installation

### 1.2.6.1 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

## 1.2.7 Insulation stop

### 1.2.7.1 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

## 1.2.8 Jumper

### 1.2.8.1 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

## 1.2.9 Marking

### 1.2.9.1 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

## 1.2.10 Plug

### 1.2.10.1 AND gate module



**Item No.: 286-826**  
AND gate module with 6 inputs; light gray

### 1.2.10.2 Component module with a fuse



**Item No.: 286-891**  
Component module with fuse; for (5 x 20) mm microfuse; Nominal voltage: 230 VAC/DC; gray



**Item No.: 286-890**  
Component module with fuse; for (5 x 20) mm microfuse; Nominal voltage: 24 VAC/DC; gray

### 1.2.10.3 Component module with diode



**Item No.: 286-809**  
Component module with diode; with 9 pcs; Diode 1N4007; with common anode; gray

#### 1.2.10.4 Component module with LED



**Item No.: 286-822**

Component module with LED; Red LED; with common cathode

#### 1.2.10.5 Current flow monitoring module



**Item No.: 286-664**

Current flow monitoring module; AC currents; Monitoring range: 0.2 A – 3 A; 1 changeover contact; light gray



**Item No.: 286-665**

Current flow monitoring module; AC currents; Monitoring range: 1 A – 10 A; 1 changeover contact; light gray

#### 1.2.10.6 Empty component plug housing



**Item No.: 280-804**

Empty component plug housing; 10 mm wide; Type 3; 4-pole; gray



**Item No.: 286-113**

Empty component plug housing; Type 12; 25 mm wide; 10-pole; gray



**Item No.: 786-103**

Empty component plug housing; Type 16; 25 mm wide; 10-pole; gray



**Item No.: 286-110**

Empty component plug housing; Type 9; 10 mm wide; 4-pole; gray

#### 1.2.10.7 Optocoupler module



**Item No.: 286-791**

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 ... 60 VDC; Limiting continuous current: 0.1 A; 2-wire connection; Frequency: 3 kHz; Red status indicator; Module width: 10 mm; gray



**Item No.: 286-794**

Optocoupler module; Nominal input voltage: 24 VDC; Red status indicator; gray

#### 1.2.10.8 Relay module



**Item No.: 286-368/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 break contact; Limiting continuous current: 3 A; Railway; Red status indicator; Module width: 10 mm; gray



**Item No.: 286-368**

Relay module; Nominal input voltage: 24 VDC; 1 break contact; Limiting continuous current: 5 A; Red status indicator; Module width: 10 mm; gray



**Item No.: 286-364/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 3 A; Railway; Red status indicator; Module width: 10 mm; gray



**Item No.: 286-364**

Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 5 A; Red status indicator; Module width: 10 mm; gray



**Item No.: 286-336/001-000**

Relay module; Nominal input voltage: 24 VDC; 2 break and 2 make contacts; Red status indicator; Module width: 25 mm; gray



**Item No.: 286-344/004-000**

Relay module; Nominal input voltage: 24 VDC; 3 break contacts and 1 make contact; Railway; Red status indicator; Module width: 25 mm; gray



**Item No.: 286-352/004-000**

Relay module; Nominal input voltage: 24 VDC; 4 make contacts; Limiting continuous current: 5 A; Railway; Red status indicator; Module width: 25 mm; gray

#### 1.2.10.9 S0 interface power supply unit



**Item No.: 286-742**

S0 interface power supply; Input voltage: 230 VAC; S0 interface

## 1.2.11 Protective warning marker

### 1.2.11.1 Cover



**Item No.: 280-415**

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

## 1.2.12 Push-in type wire jumper

### 1.2.12.1 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

## 1.2.13 Test and measurement

### 1.2.13.1 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

## 1.2.14 Tool

### 1.2.14.1 Operating tool

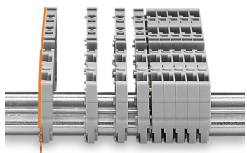


**Item No.: 210-720**

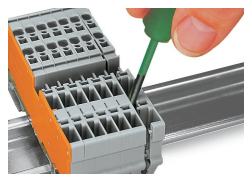
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation Notes

### Installation



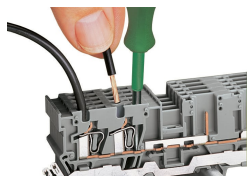
Snap individual carrier terminal blocks onto the DIN-rail and slide together.



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



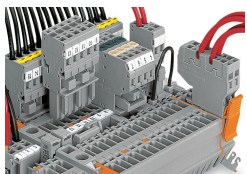
## Conductor termination



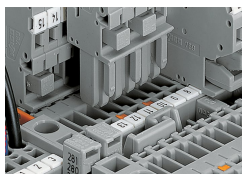
### CAGE CLAMP® connection

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

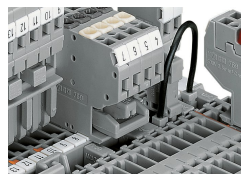
## Commoning



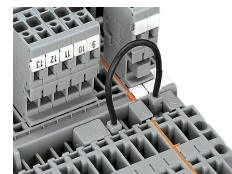
Commoning with adjacent or staggered jumpers. Push jumpers down until fully inserted.



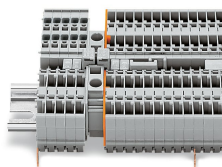
Commoning carrier terminal blocks via staggered jumpers.



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

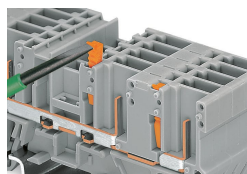


Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



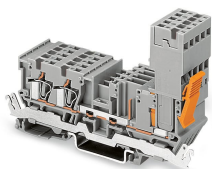
Commoning "supply terminal blocks" (up to 10 mm<sup>2</sup>/8 AWG) with carrier terminal blocks via step-down jumpers.

## 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.