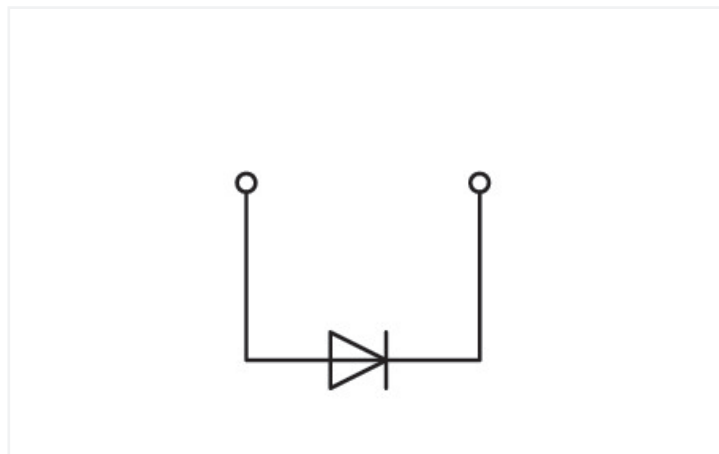
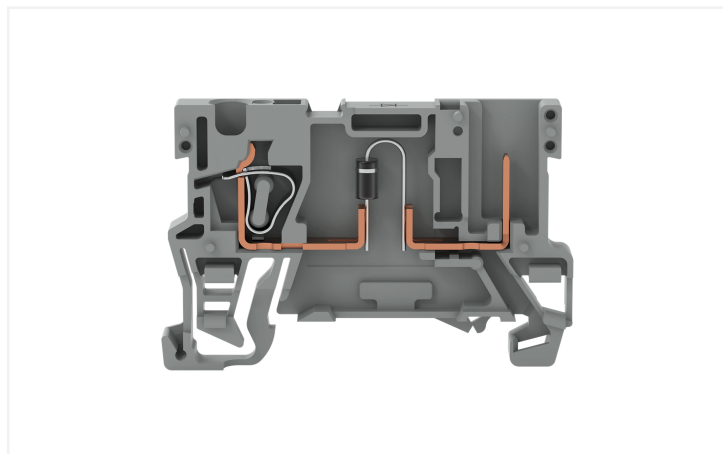


## Data Sheet | Item Number: 769-238/281-410

1-conductor/1-pin component carrier terminal block; with diode 1N4007; anode, left side; 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/769-238/281-410>



Color: ■ gray

769-238/281-410

### Notes

Safety information

2-conductor female plugs cannot be used.

### Electrical data

#### Ratings per IEC/EN

Rated current 0.5 A

#### General information

Nominal voltage 250 V  
Reverse voltage 1000 V

### 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	0.109 MJ
Weight	5.1 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	27-14-11-27
eCl@ss 9.0	27-14-11-27
ETIM 8.0	EC000903
ETIM 7.0	EC000903
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454619510
Customs tariff number	85366990990

### Environmental Product Compliance

CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
SCIP notification number (Austria)	5eeef95e-2c59-4ac9-a4a9-fefdac414268
SCIP notification number (Belgium)	ebcdc798-c6b0-40e0-9d6b-47bb5da7d8fd
SCIP notification number (Bulgaria)	02ae744e-855a-4661-8056-f87fa4eb69cc
SCIP notification number (Czech Republic)	44e414cd-e678-4a51-bf2f-4071a377c969
SCIP notification number (Denmark)	84954bd9-f901-4245-85f7-7577d52e0531
SCIP notification number (Finland)	bf69a277-2238-4422-912b-68af0fa6db2a
SCIP notification number (France)	467b416f-59b8-484a-8e53-df8303a0256c
SCIP notification number (Germany)	c6077f93-4301-44b4-801a-01cdb6d8f4bc
SCIP notification number (Hungary)	8c6f6891-7413-40c4-b994-1294345302b2

**Environmental Product Compliance**

SCIP notification number (Italy)	4c0d2a7e-1dfa-4705-a08a-b696e8a5f67e
SCIP notification number (Netherlands)	d163d7b8-ff88-44ec-b28c-9c435165cbe9
SCIP notification number (Poland)	1d3758e6-53fe-4dc4-89b1-8b50d3ad8fc0
SCIP notification number (Romania)	ad390b21-fa2c-4ea2-9463-b0bed4ae9615
SCIP notification number (Sweden)	ddab7472-294c-44d4-9192-133d46ed6205

**Approvals / Certificates**

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



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626
CSA CSA Group	C22.2	1101144
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2190419.01

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

**Approvals for marine applications**



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

**Downloads**

**Environmental Product Compliance**





Compliance Search	
Environmental Product Compliance 769-238/281-410	<a href="#">↓</a>

**Documentation**

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

Bid Text			
769-238/281-410	19.02.2019	xml 3.22 KB	<a href="#">↓</a>
769-238/281-410	02.10.2017	doc 24.00 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data	CAE data
2D/3D Models 769-238/281-410 	EPLAN Data Portal 769-238/281-410 
	WSCAD Universe 769-238/281-410 
	ZUKEN Portal 769-238/281-410 

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



**Item No.: 769-101/022-000**

1-conductor female connector, angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

**Item No.: 769-101**

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

**Item No.: 769-121**

2-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

### 1.2 Required Accessories

#### 1.2.1 End plate

##### 1.2.1.1 End plate



**Item No.: 769-307**

End and intermediate plate; 1.1 mm thick; gray

**Item No.: 769-308**

End and intermediate plate; 1.1 mm thick; orange

### 1.3 Optional Accessories

#### 1.3.1 Coding

##### 1.3.1.1 Coding



**Item No.: 769-435**

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; 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; un-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; un-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 Marking

#### 1.3.7.1 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

### 1.3.8 Protective warning marker

#### 1.3.8.1 Cover



**Item No.: 280-415**

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

### 1.3.9 Test and measurement

#### 1.3.9.1 Testing accessories



**Item No.: 210-136**

Test plug; 2 mm Ø; with 500 mm cable; red

### 1.3.10 Tool

#### 1.3.10.1 Operating tool

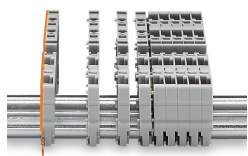


**Item No.: 210-720**

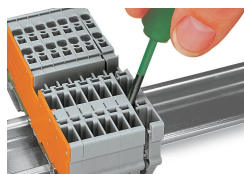
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

### Installation Notes

#### Installation

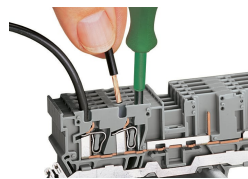


Snap individual carrier terminal blocks onto the DIN-rail and slide together.



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

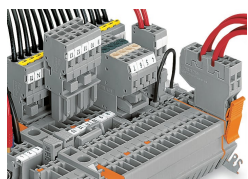
### Conductor termination



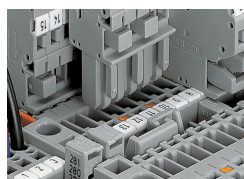
**CAGE CLAMP® connection**

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

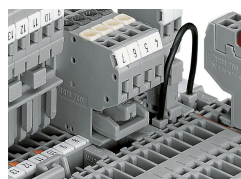
### Commoning



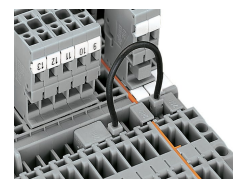
Commoning with adjacent or staggered jumpers. Push jumpers down until fully inserted.



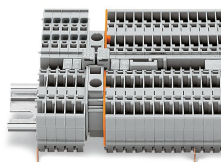
Commoning carrier terminal blocks via staggered jumpers.



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

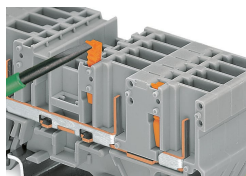


Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



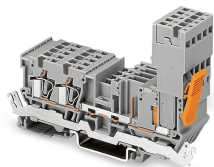
Commoning "supply terminal blocks" (up to 10 mm<sup>2</sup>/8 AWG) with carrier terminal blocks via step-down jumpers.

## 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.



1-conductor female plug  
Diode carrier terminal blocks cannot be commoned.