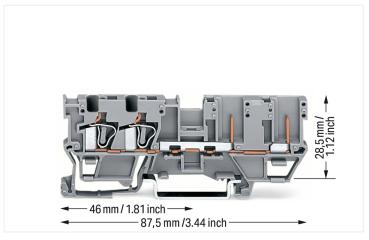
2-conductor/2-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>;

CAGE CLAMP®; 4,00 mm²; gray https://www.wago.com/769-171







Color: ■ gray

Through terminal block, 769 Series, operating tool

Our through terminal block (item number 769-171) makes connecting wires quick and easy. Whether for industrial or building applications, you can use our through terminal blocks to connect electrical conductors quickly and safely. We offer variants for both classic through-wiring and potential distribution. Rated current and voltage are key factors to consider when choosing a pluggable rail-mount terminal block, as they determine the product's suitability for different applications. This product has a rated voltage of 500 V and a rated current of 32 A. Strip lengths must be between 8 mm and 9 mm when connecting conductors to this through terminal block. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. Depending on the type of conductor, this through terminal block is designed for conductor cross sections ranging from 0.08 mm² to 4 mm². It comes with one level and two clamping points for connecting a single potential. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this pluggable rail-mount terminal block. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails.. Conductors made of copper can be connected via front-entry wiring.

Notes	
Safety Information	A separator plate (Item No. 209-191) or a 10 mm end stop (Item No. 249-117) must be placed at the end of a WAGO X-COM®-SYSTEM terminal strip.
Note	1-conductor angled female plugs cannot be used.

Electrical data				
Ratings per	IEC/	EN 60947-	7-1	Pow
Overvoltage category	III	III	II	Powe
Pollution degree	3	2	2	Rate
Nominal voltage	500 V	-	-	Resis
Rated surge voltage	6 kV	-	-	depe
Rated current	32 A	-	-	

Power Loss	
Power loss, per pole (potential)	1.024 W
Rated current $I_N$ for specified power loss	32 A
Resistance value for specified, current- dependent power loss	0.001 Ω

Connection data			
Clamping units	2	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
Number of levels	1	Number of connection points	2
		Actuation type	Operating tool
		Connectable conductor materials	Copper
		Nominal cross-section	4 mm² / 12 AWG
		Solid conductor	0.08 4 mm² / 28 12 AWG
		Fine-stranded conductor	0.08 4 mm² / 28 12 AWG
		Strip length	8 9 mm / 0.31 0.35 inches

https://www.wago.com/769-171



#### Connection 1

Wiring direction Front-entry wiring

#### Connection 2

Number of connection points

# Physical data

Width $5 \, \text{mm} / 0.197 \, \text{inches}$ Height $87.5 \, \text{mm} / 3.445 \, \text{inches}$ Depth from upper-edge of DIN-rail $28.5 \, \text{mm} / 1.122 \, \text{inches}$ 

#### Mechanical data

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

#### Material data

Note (material data)

Information on material specifications can be found here

Color gray
Material group I

Insulation material (main housing) Polyamide (PA66)

Flammability class per UL94 V0
Fire load 0.169 MJ
Weight 9.7 g

#### **Environmental requirements**

Processing temperature  $-35 \dots +85 \,^{\circ}\text{C}$ Continuous operating temperature  $-60 \dots +105 \,^{\circ}\text{C}$ 

# Commercial data

 Product Group
 18 (X-COM-System)

 PU (SPU)
 50 pcs

 Packaging type
 Box

 Country of origin
 CN

 GTIN
 4045454871673

 Customs tariff number
 85366990990

#### **Product classification**

 UNSPSC
 39121410

 eCl@ss 10.0
 27-14-11-20

 eCl@ss 9.0
 27-14-11-20

 ETIM 9.0
 EC000897

 ETIM 8.0
 EC000897

 ECCN
 NO US CLASSIFICATION



#### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

# General approvals









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
UL Underwriters Laboratories Inc.	UL 1977	E 45171
UR Underwriters Laboratories Inc.	UL 1059	E45172

# Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004428.000

# Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

# Downloads

# **Environmental Product Compliance**

Compliance Search

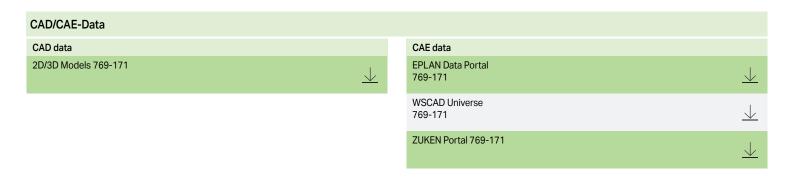
**Environmental Product** Compliance 769-171



https://www.wago.com/769-171



# Documentation Bid Text xml 769-171 19.02.2019 3.26 KB √ √ 769-171 doc 02.10.2017 25.00 KB



#### 1 Compatible Products

#### 1.1 System counterpart

#### 1.1.1 Female connector/socket

#### Item No.: 769-110/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-111/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 11pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-112/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 12pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-113/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 13pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-114/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-115/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 15pole; coding finger; Centered locking levers; Strain relief plate; 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.: 769-101/141-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-102/142-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 2-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-103/142-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 3-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-104/143-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 4-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-105/143-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 5-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-106/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 6-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-107/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 7-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-108/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 8-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

#### Item No.: 769-109/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; Centered locking levers; Strain relief plate; 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

https://www.wago.com/769-171



#### 1.2 Required Accessories

#### 1.2.1 End plate

#### 1.2.1.1 End plate





Item No.: 769-303

End and intermediate plate; 1.1 mm thick;

Item No.: 769-304

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

Item No.: 210-114

60715; silver-colored

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

Steel carrier rail; 35 x 15 mm; 1.5 mm

thick; 2 m long; unslotted; similar to EN

#### 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

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#### 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 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; 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; uninsulated; electro-tin plated; silver-colored

Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; 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 mm² / AWG 16; uninsulated; 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



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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 DINrail 35 x 15 and 35 x 7.5; gray

1.3.6 Insulation stop

1.3.6.1 Insulation stop

Insulation stop; 0.08 - 0.2 mm2 "s" (0.14

mm2 "f-st"); 5 pieces/strip; white

and

Carlo

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 mm²; 5 pieces/ strip; dark gray

1.3.7 Jumper

Item No.: 769-470

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

<u>Item No.: 780-456</u>

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

https://www.wago.com/769-171



#### 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

# Militia

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

lated; 110 mm long; black



Push-in type wire jumper; 0.75 mm<sup>2</sup>; insu-



Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black



Push-in type wire jumper; 0.75  $\rm mm^2$ ; 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



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

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#### **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.

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.

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#### Locking system



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





Carrier terminal block

Carrier terminal block



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



2 x 1-conductor female plugs Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



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



1-conductor female plug and 2-conductor female plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



2-conductor/2-pin carrier terminal block (769-171)

Conductor cross-section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)

Conductor cross-section: 4 mm² (12 AWG) Conductor loop length: 1 m

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