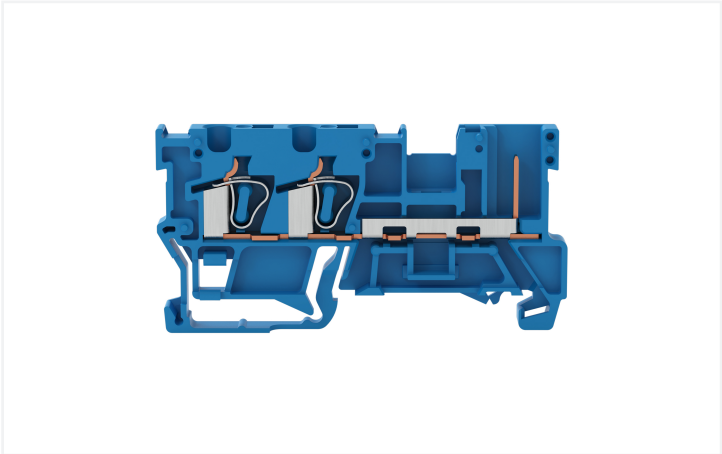
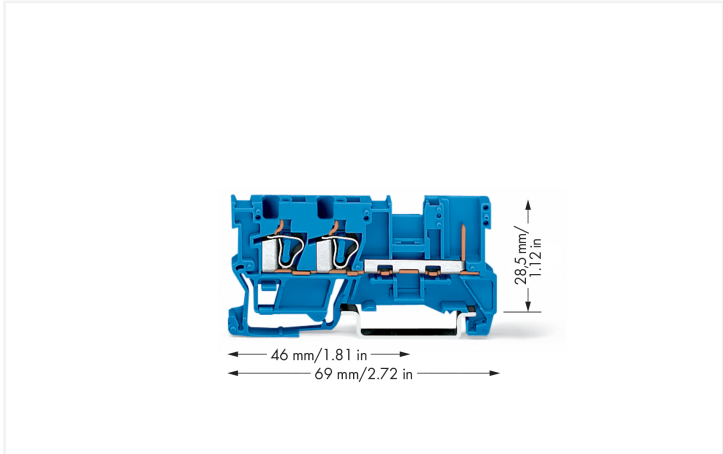




Color: ■ blue

Through terminal block, 769 Series, blue

This through terminal block (item number 769-251/000-006) streamlines wire connections, making them both quick and easy. Strip lengths must be between 8 and 9 mm when connecting conductors to this through terminal block. Pluggable rail-mount terminal blocks are mainly used in switchgear units and control systems (e.g., in railroad technology). They are essentially a combination of rail-mount terminal blocks and pluggable connectors. You can also pre-assemble installations thanks to the variable wiring system. This saves both time and money during manufacture, installation, operation, and maintenance. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a proven and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. Depending on the type of conductor, this through terminal block is ideal for conductor cross sections ranging from 0.08 mm² to 4 mm².

This pluggable rail-mount terminal block is operated with an operating tool.

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.
Safety information 2	Staggered jumpers cannot be installed in terminal blocks when using 2-conductor female plugs.

Electrical data				
Ratings per		IEC/EN 60947-7-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		500 V	-	-
Rated impulse withstand voltage		6 kV	-	-
Rated current		32 A	-	-
Power Loss				
Power loss, per pole (potential)		1.024 W		
Rated current I _N for power loss specification		32 A		
Resistance value for specified, current-dependent power loss		0.001 Ω		



General information	
Wiring direction	Front-entry wiring

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
		Wiring direction	Front-entry wiring

Connection 2	
Number of connection points	1

Physical data		
Width	5 mm / 0.197 inches	
Height	69 mm / 2.717 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)	Information on material specifications can be found here	
Color	blue	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Fire load	0.121 MJ	
Weight	7.8 g	

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

Commercial data		
Product Group	18 (X-COM-System)	
PU (SPU)	50 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4045454222130	
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 10.0	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 1059	E45172
UL Underwriters Laboratories Inc.	UL 1977	20151210-E45171

Declarations of conformity and manufacturer's declarations



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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
769-251/000-006





Documentation

Bid Text			
769-251/000-006	19.02.2019	xml 3.27 KB	
769-251/000-006	02.10.2017	doc 25.50 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 769-251/000-006	

CAE data	
EPLAN Data Portal 769-251/000-006	
WSCAD Universe 769-251/000-006	
ZUKEN Portal 769-251/000-006	

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.: 769-101/000-006
1-conductor female connector; CAGE
CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole;
coding finger; 4,00 mm²; blue



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.: 769-320
End and intermediate plate; 1.1 mm thick;
gray



Item No.: 769-321
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 mm² / 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 mm² / 18 AWG; insulated; electro-tin plated; gray	 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm² / 18 AWG; 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 mm² / AWG 18; uninsulated; electro-tin plated



1.3.4.1 Ferrule



Item No.: 216-204 Ferrule; Sleeve for 1.5 mm² / 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 mm² / 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 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white	Item No.: 769-471 Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray	Item No.: 769-472 Insulation stop; 0.75 - 1 mm²; 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 mm²; insulated; 110 mm long; black



Item No.: 249-123
Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black



Item No.: 249-127
Push-in type wire jumper; 0.75 mm²; 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 mm² - 4 mm² 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

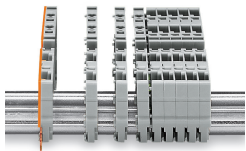
1.3.12.1 Operating tool



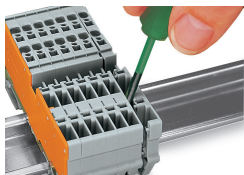
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

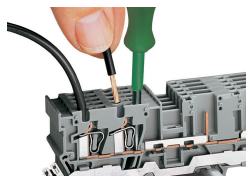


Snap individual carrier terminal blocks onto the DIN-rail and slide together.



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

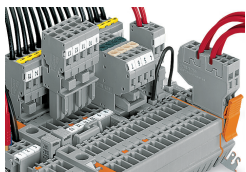
Conductor termination



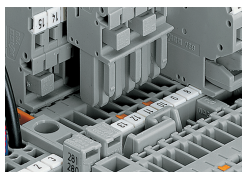
CAGE CLAMP® connection

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

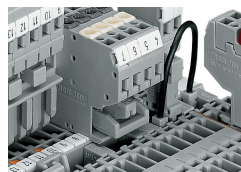
Commoning



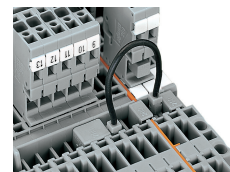
Commoning with adjacent or staggered jumpers.
Push jumpers down until fully inserted.



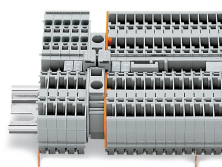
Commoning carrier terminal blocks via staggered jumpers.



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

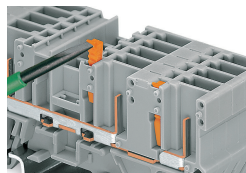


Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



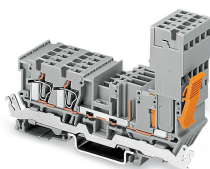
Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.

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.