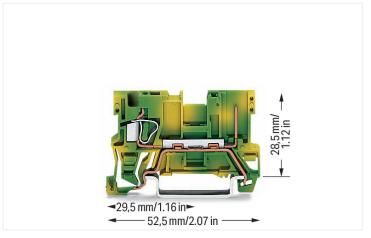
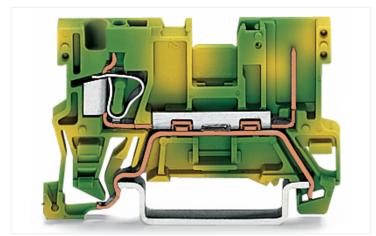
1-conductor/1-pin ground carrier terminal block; 4 mm²; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP[®]; 4,00 mm²; green-yellow

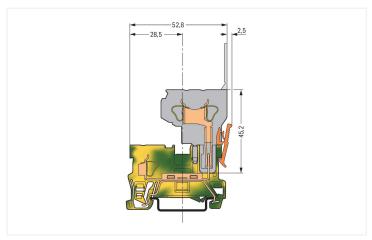


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Color: green-yellow



Ground carrier terminal block

Ground terminal block, 769 Series, CAGE CLAMP®

This ground terminal block (item number 769-237) is designed to connect conductors quickly and easily. Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors to create the perfect solution. Variable wiring systems make pre-assembly easy, which saves both time and money in production, installation, operation, and maintenance. Ensure that the strip lengths are between 8 mm and 9 mm when connecting conductors to this ground terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a reliable 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. This ground terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 4 mm². It has one level. You can connect a single potential using one clamping point. The green-yellow housing is made of polyamide (PA66) for insulation. This pluggable rail-mount terminal block is operated with an operating tool. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails.. You can connect copper conductors thanks to 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.

Electrical data

Ratings per	IEC	/EN 60947-	7-2
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	-
Rated surge voltage	-	-	-
Rated current	-	-	-



Connection data		
Clamping units	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 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

the standard $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$

 $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$

Continued on next page

Connection 2

Number of connection points

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) Information on material specifications can be found here Color green-yellow Material group Insulation material (main housing) Polyamide (PA66) Flammability class per UL94 V0 Fire load 0.101 MJ Weight 6.8 g

-35 ... +85 °C Processing temperature **Environmental Testing (Environmental Conditions)** -60 ... +105 °C Continuous operating temperature Test specification DIN EN 50155 (VDE 0115-200):2022-06 Railway applications -Rolling stock -Electronic equipment Test procedure DIN EN 61373 (VDE 0115-0106):2011-04 Railway applications -Rolling stock equipment -Shock and vibration tests Spectrum/Installation location Service life test, Category 1, Class A/B Function test with noise-like vibration Test passed according to Section 8 of

Frequency

Environmental requirements

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Environmental Testing (Environmental Conditions)

Acceleration 0.101g (highest test level used for all

axes)

0.572g (highest test level used for all

axes)

5g (highest test level used for all axes)

10 min. Test duration per axis

5 h

X, Y and Z axes Test directions

X. Y and Z axes X, Y and Z axes

Monitoring for contact faults/interrupti-

Passed

Voltage drop measurement before and

after each axis

Passed

Simulated service life test through increased levels of noise-like vibration

the standard Passed Passed

Extended test scope: Monitoring for contact faults/interruptions Extended test scope: Voltage drop measurement before and after each axis

Passed Passed

Shock test

Test passed according to Section 10 of

Test passed according to Section 9 of

the standard

Shock form Shock duration Half sine

Number of shocks per axis

30 ms 3 pos. und 3 neg.

Vibration and shock stress for rolling

stock equipment

Passed

Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918827843

85366990990

Product classification

Customs tariff number

UNSPSC 39121410

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals







	8
1	77
	74

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

General approvals

Underwriters Laboratories

UL 1059

E45172

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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
UK-Declaration of Conformity 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 769-237



Documentation Additional Information Technical Section pdf 2246.92 KB

Bid Text			
769-237	19.02.2019	xml 3.12 KB	<u>↓</u>
769-237	02.10.2017	doc 24.50 KB	$\underline{\downarrow}$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 769-237	EPLAN Data Portal 769-237
	WSCAD Universe 769-237
	ZUKEN Portal 769-237

1 Compatible Products 1.1 System counterpart 1.1.1 Female connector/socket Item No.: 769-101/022-016 Item No.: 769-101/000-016 Item No.: 769-121/000-016 1-conductor female connector; CAGE 2-conductor female connector; CAGE 1-conductor female connector, angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; CLAMP®; 4 mm²; Pin spacing 5 mm; 1-po-CLAMP®; 4 mm²; Pin spacing 5 mm; 1-po-1-pole; coding finger; 4,00 mm²; greenle; coding finger; 4,00 mm²; green-yellow le; coding finger; 4,00 mm²; green-yellow yellow

https://www.wago.com/769-237



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

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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-colo-

Item No.: 216-202 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / AWG 20; sulated; electro-tin plated; gray uninsulated; electro-tin plated; silver-co-

lored

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

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-coloItem 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



Mounting carrier; for isolated mounting on

Item No.: 249-116 Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

Item No.: 209-106 DIN 35 rails; 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

and

Item No.: 769-471

Insulation stop; 0.25 - 0.5 mm2; 5 pieces/ strip; light gray

acce

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.: 280-422

Jumper; insulated; yellow-green

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;

Item No.: 780-456

Staggered jumper; from 1 to 6; insulated;

Item No.: 780-457

Staggered jumper; from 1 to 7; insulated; gray

Item No.: 780-458

Staggered jumper; from 1 to 8; insulated;

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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 $\rm mm^2$; insulated; 110 mm long; black



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



Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black



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



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.

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Locking system



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



Ground carrier terminal block



1-conductor/1-pin ground carrier terminal block

2-conductor female plug, green-yellow

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

Current addresses can be found at:: $\underline{www.wago.com}$