Data Sheet | Item Number: 769-171 2-conductor/2-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm²; CAGE CLAMP[®]; 4,00 mm²; gray

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

46 mm / 1.81 inch

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

Color: gray

Ratings per	IEC/I	EN 60947-	7-1
Overvoltage category	Ш	Ш	П
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	32 A	-	-

Power Loss		
Power loss, per pole (potential)	1.024 W	
Rated current ${\rm I}_{\rm N}$ for specified power loss	32 A	
Resistance value for specified, current- dependent power loss	0.001 Ω	

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

Strip length

Through terminal block, 769 Series, operating tool

1-conductor angled female plugs cannot be used.





0.08 ... 4 mm² / 28 ... 12 AWG 8...9 mm / 0.31 ... 0.35 inches

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Connection 1		Connection 2
Wiring direction	Front-entry wiring	Number of connection points 1
Physical data		
Width		5 mm / 0.197 inches
Height		87.5 mm / 3.445 inches
Depth from upper-edge of DI	N-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 apositions can be found have
	Information on material specifications can be found here
Color	gray
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.169 MJ
Weight	9.7 g

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

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	-	-
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
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance



Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2246.92 KB	$\underline{\checkmark}$	769-171	19.02.2019	xml 3.26 KB	\downarrow
			769-171	02.10.2017	doc 25.00 KB	\downarrow





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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 DINrail 35 x 15 and 35 x 7.5; gray

1.3.6 Insulation stop

1.3.6.1 Insulation stop

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Item No.: 769-470 Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white <u>Item No.: 769-471</u> Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

CEEE



Item No.: 769-472 Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; dark gray



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1.3.8 Marking

1.3.8.1 Marker

Item No.: 2009-145

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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: mo

Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray



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

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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. Push jumpers down until fully inserted.



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



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.

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!