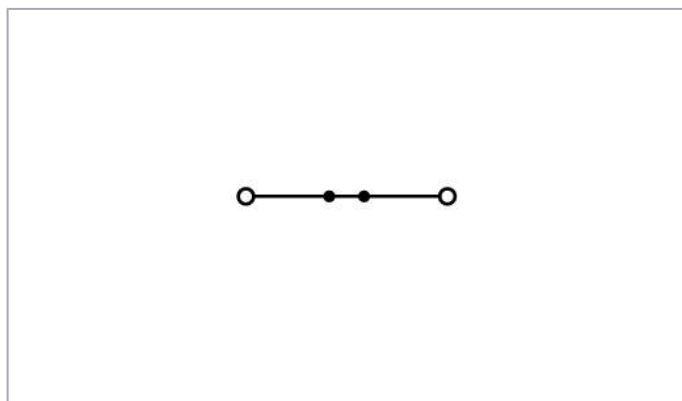
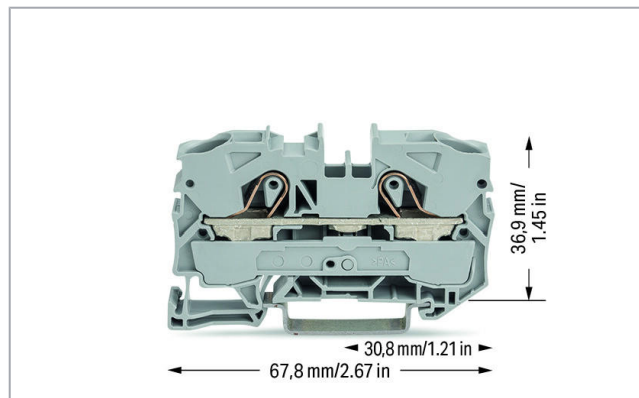
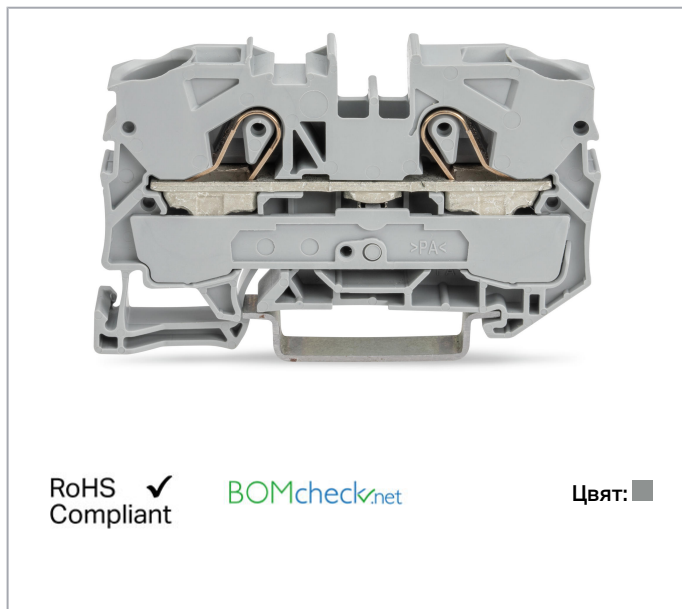


Информационен лист | Номер на артикул: 2010-1201

2-conductor through terminal block; 10 mm²; suitable for Ex e II applications;
side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE
CLAMP®; 10,00 mm²; gray

www.wago.com/2010-1201



Данни

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV
Rated current	57 A

Подлежи на промяна. Моля, обърнете внимание и на допълнителната документация на продукта!

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Бизнес център Сердика
Бул."Акад. Иван Гешов" 2Е | Сграда 1, ет. 4, офис 417 | 1330 София
Тел.: +359 2 489 46 09 | Тел.: +359 2 489 46 10
Имейл: sales.bg@wago.com

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Rated current 2	76 A
Legend (ratings)	(III / 3) \triangle Overvoltage category III / Pollution degree 3

Ratings per UL 1059

Approvals per	UL 1059
Rated voltage UL (Use Group B)	600 V
Rated current UL (Use Group B)	65 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	65 A

Ratings per CSA

Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	65 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	65 A

Ex information

Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	51 A

Connection data

Connection technology	Push-in CAGE CLAMP [®]
Actuation type	Push-in Operating tool
Connectable conductor materials	Copper
Nominal cross-section	10 mm ²
Solid conductor	0,5 ... 16 mm ² / 20 ... 6 AWG
Solid conductor; push-in termination	4 ... 16 mm ² / 14 ... 6 AWG
Fine-stranded conductor	0,5 ... 16 mm ² / 20 ... 6 AWG
Fine-stranded conductor; with insulated ferrule	4 ... 10 mm ² / 12 ... 8 AWG
Fine-stranded conductor; with ferrule; push-in termination	4 ... 10 mm ² / 12 ... 8 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	17 ... 19 mm / 0.67 ... 0.75 inch
Total number of connection points	2
Total number of potentials	1
Number of levels	1

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Wiring type	Front-entry wiring
Number of jumper slots	2

Physical data

Width	10 mm / 0.394 inch
Height from upper-edge of DIN-rail	36,9 mm / 1.453 inch
Depth	67,8 mm / 2.669 inch

Mechanical data

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



Material Data

Color	gray
Insulation material	Polyamide (PA66)
Fire load	0,289 MJ
Weight	17,1 g

Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	DE
GTIN	4017332076005
Customs tariff number	85369010000

Одобрения / Сертификати**Ex-Approvals**

Лого	Одобрение	Допълнителен текст за одобрение	Име на сертификат
	AEx UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt	UL 60079	E185892 sec.21
	ATEX Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 05 ATEX 1070 U (II 2 G Ex ell bzw. I M2 Ex el)
	CCCEX	CNCA-C23-01	2020312313000161

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CQST/CNEx

Country specific Approvals

Лого	Одобрение	Допълнителен текст за одобрение	Име на сертификат
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7737
	CSA DEKRA Certification B.V.	C22.2 No. 158	70111238
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE. AM02.B. 00127/19
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-108310

Ship Approvals


Лого	Одобрение	Допълнителен текст за одобрение	Име на сертификат
	ABS American Bureau of Shipping	-	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/A0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

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UL-Approvals

Лого	Одобрение	Допълнителен текст за одобрение	Име на сертификат
	UL Underwriters Laboratories Inc.	UL 1059	20190731- E45172



Изискват се аксесоари

End plate





	Артикул №: 2010-1291 End and intermediate plate; 1 mm thick; gray	www.wago.com/2010-1291
	Артикул №: 2010-1292 End and intermediate plate; 1 mm thick; orange	www.wago.com/2010-1292

Съвместими продукти


Protective Warning Marker

	Артикул №: 2010-115 Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow	www.wago.com/2010-115
	Артикул №: 2016-115 Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow	www.wago.com/2016-115


check

	Артикул №: 2009-174 Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray	www.wago.com/2009-174
	Артикул №: 2009-182 Testing tap; for max. 2.5 mm ² ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray	www.wago.com/2009-182
	Артикул №: 2010-511 Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 10,00 mm ² ; gray	www.wago.com/2010-511
	Артикул №: 2010-549 Spacer module; modular; e.g., for bridging commoned terminal blocks; gray	www.wago.com/2010-549

tools

	Артикул №: 210-721 Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-721
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protection

	Артикул №: 2010-100 Finger guard; touchproof cover protects unused conductor entries; yellow	www.wago.com/2010-100
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End plate

**Артикул №: 209-191**

Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

www.wago.com/209-191

Carrier rail

**Артикул №: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

www.wago.com/210-113**Артикул №: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

www.wago.com/210-114**Артикул №: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

www.wago.com/210-118**Артикул №: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

www.wago.com/210-196**Артикул №: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

www.wago.com/210-197**Артикул №: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

www.wago.com/210-198

Jumper

**Артикул №: 2010-402**

Jumper; 2-way; insulated; light gray

www.wago.com/2010-402**Артикул №: 2010-403**

Jumper; 3-way; insulated; light gray

www.wago.com/2010-403**Артикул №: 2010-404**

Jumper; 4-way; insulated; light gray

www.wago.com/2010-404**Артикул №: 2010-405**

Jumper; 5-way; insulated; light gray

www.wago.com/2010-405**Артикул №: 2010-405/011-000**

Star point jumper; 3-way; insulated; light gray

www.wago.com/2010-405/011-000**Артикул №: 2010-433**

Jumper; from 1 to 3; insulated; light gray

www.wago.com/2010-433**Артикул №: 2010-434**

Jumper; from 1 to 4; insulated; light gray

www.wago.com/2010-434**Артикул №: 2010-435**

Jumper; from 1 to 5; insulated; light gray

www.wago.com/2010-435**Артикул №: 2016-499**

Step-down jumper; insulated; light gray

www.wago.com/2016-499

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Артикул №: 285-430
Step-down jumper; insulated; gray

www.wago.com/285-430
















Marking accessories

	Артикул №: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
	Артикул №: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-115
	Артикул №: 2009-115/000-002 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	www.wago.com/2009-115/000-002
	Артикул №: 2009-115/000-006 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/2009-115/000-006
	Артикул №: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/2009-115/000-007
	Артикул №: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/2009-115/000-012
	Артикул №: 2009-115/000-017 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green	www.wago.com/2009-115/000-017
	Артикул №: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-115/000-023
	Артикул №: 2009-115/000-024 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/2009-115/000-024
	Артикул №: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-145
	Артикул №: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	www.wago.com/2009-145/000-002
	Артикул №: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	www.wago.com/2009-145/000-005
	Артикул №: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/2009-145/000-006

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	Артикул №: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/2009-145/000-007
	Артикул №: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/2009-145/000-012
	Артикул №: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-145/000-023
	Артикул №: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/2009-145/000-024
	Артикул №: 2009-191 Group marker carrier	www.wago.com/2009-191
	Артикул №: 2009-192 Group marker carrier	www.wago.com/2009-192
	Артикул №: 2009-193 Group marker carrier	www.wago.com/2009-193
	Артикул №: 2009-198 Adaptor; gray	www.wago.com/2009-198
	Артикул №: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	www.wago.com/248-501
	Артикул №: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/248-501/000-002
	Артикул №: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	www.wago.com/248-501/000-005
	Артикул №: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	www.wago.com/248-501/000-006
	Артикул №: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	www.wago.com/248-501/000-007
	Артикул №: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	www.wago.com/248-501/000-012
	Артикул №: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	www.wago.com/248-501/000-017

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**Артикул №: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

www.wago.com/248-501/000-023**Артикул №: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

www.wago.com/248-501/000-024**Артикул №: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/793-501**Артикул №: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type; yellow

www.wago.com/793-501/000-002**Артикул №: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red

www.wago.com/793-501/000-005**Артикул №: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type; blue

www.wago.com/793-501/000-006**Артикул №: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type; gray

www.wago.com/793-501/000-007**Артикул №: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type; orange

www.wago.com/793-501/000-012**Артикул №: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type; light green

www.wago.com/793-501/000-017**Артикул №: 793-501/000-023**

WMB marking card; as card; not stretchable; plain; snap-on type; green

www.wago.com/793-501/000-023**Артикул №: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type; violet

www.wago.com/793-501/000-024**Артикул №: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/793-5501**Артикул №: 793-5501/000-002**












WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

www.wago.com/793-5501/000-002**Артикул №: 793-5501/000-005**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

www.wago.com/793-5501/000-005

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	Артикул №: 793-5501/000-006 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue	www.wago.com/793-5501/000-006
	Артикул №: 793-5501/000-007 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray	www.wago.com/793-5501/000-007
	Артикул №: 793-5501/000-012 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange	www.wago.com/793-5501/000-012
	Артикул №: 793-5501/000-017 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/793-5501/000-017
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	Артикул №: 793-5501/000-024 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/793-5501/000-024
ferrule		
	Артикул №: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-284
	Артикул №: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-286
	Артикул №: 216-287 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-287
	Артикул №: 216-288 Ferrule; Sleeve for 6 mm ² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow	www.wago.com/216-288
	Артикул №: 216-289 Ferrule; Sleeve for 10 mm ² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-289

Изтегляния**Documentation****Bid Text**

2010-1201	Apr 17, 2019	xml	Изтегляне
X81 - Datei		4,2 kB	

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Бизнес център Сердика
Бул."Акад. Иван Гешов" 2Е | Сграда 1, ет. 4, офис 417 | 1330 София
Тел.: +359 2 489 46 09 | Тел.: +359 2 489 46 10
Имейл: sales.bg@wago.com

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2010-1201 docx - Datei	Apr 17, 2019	docx 15,2 kB	Изтегляне
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Additional Information Technical explanations	Apr 3, 2019	pdf 2,2 MB	Изтегляне
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CAD/CAE-Data

CAD data

2D/3D Models 2010-1201	URL	Изтегляне
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CAE data

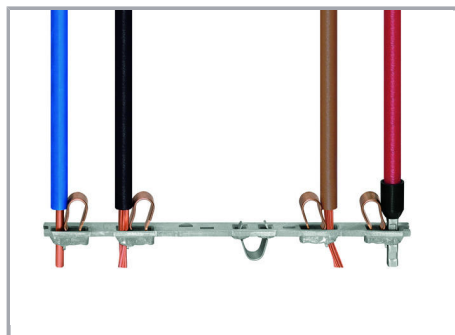
EPLAN Data Portal 2010-1201	URL	Изтегляне
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WSCAD Universe 2010-1201	URL	Изтегляне
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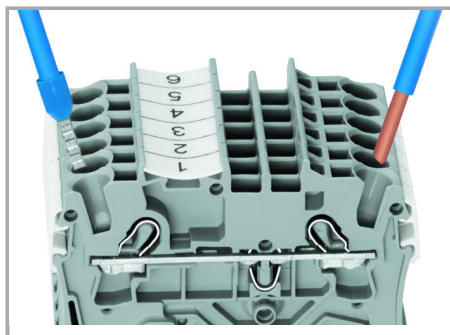
ZUKEN Portal 2010-1201	URL	Изтегляне
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Бележки за инсталиране

Conductor termination



All conductor types at a glance

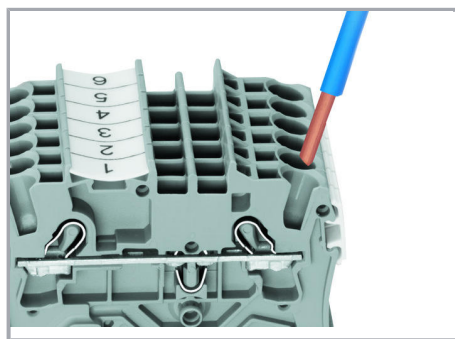


Terminating solid and ferruled conductors via push-in connection.

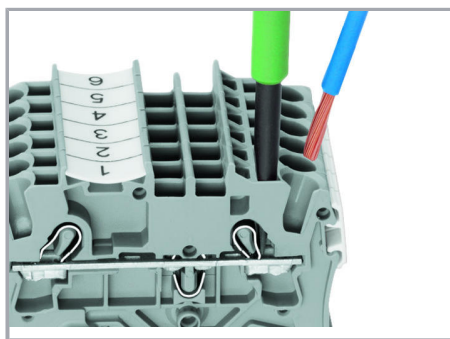
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Inserting conductors via push-in termination.



Inserting a conductor via operating tool.

Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

The smart feature:

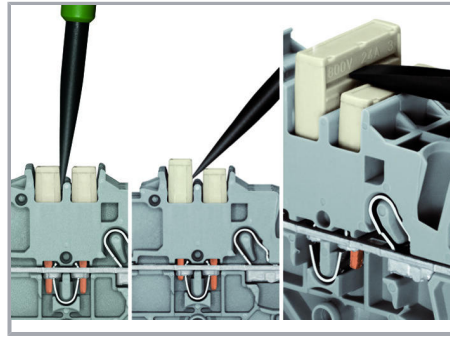
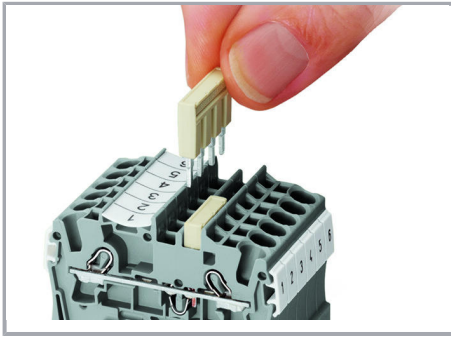
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

Commoning

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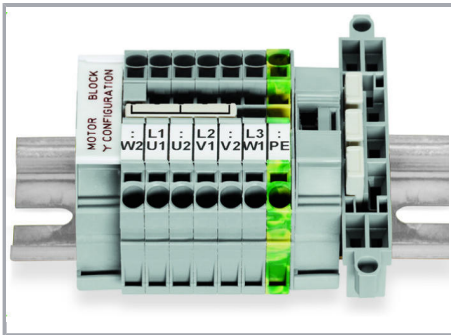
The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the full-rated current of the terminal block. Ground terminal blocks can also be commoned using the same jumper system. Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).

Removing a push-in type jumper bar.

Insert the operating tool between the jumper and the partition wall of the dual jumper slots, then lift up the jumper.

Place the operating tool in the center of jumpers up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

Commoning



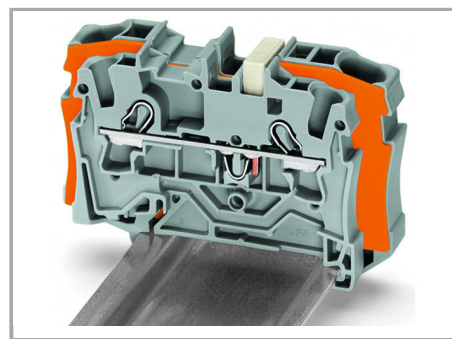
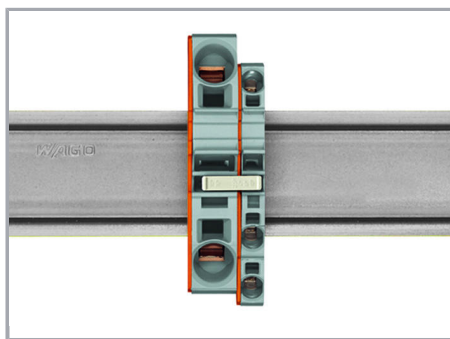
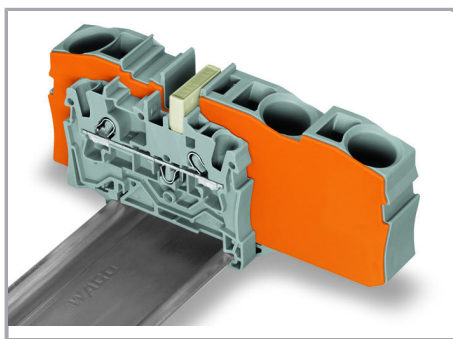
This star point jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.

Commoning

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Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drops may be problematic. A large conductor can be easily connected to smaller conductors at the distribution point.

Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.

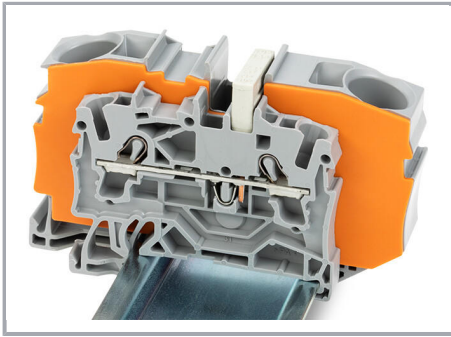
Step-down jumper (2006-499) commons 6 /4 mm² (10/12 AWG) terminal blocks (2006 /2004 Series) with 4/2.5/1.5 mm² (12/14/16 AWG) terminal blocks (2004/2002/2001 Series).

Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.

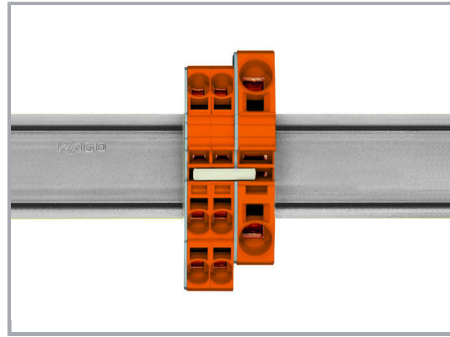
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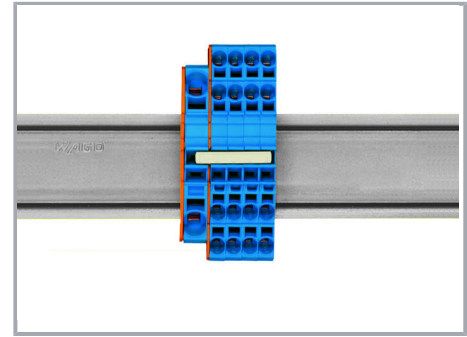


Step-down jumper (2016-499) commons 16 /10 mm² (16/8 AWG) terminal blocks (2016 /2010 Series) with 10/6/4/2.5 mm² (8/10/12 /14 AWG) terminal blocks (2010/2006/2004 /2002 Series).



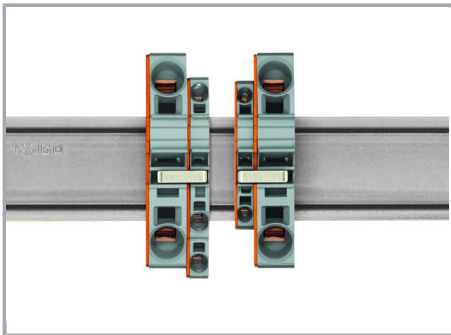
Stepping down via push-in type jumper bar.

Commoning via open terminal side with end plate allows jumpering over two cross-section sizes for 16 mm² (6 AWG) and 10 mm² (8 AWG) and one cross-section size for 6/4/2.5 mm² (10/12/14 AWG). An example: from 16 mm² (6 AWG) to 6 mm² (10 AWG) (see illustration above) or from 10 mm² (8 AWG) to 4 mm² (12 AWG).



Stepping down via push-in type jumper bar.

Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm² (6 AWG) to 6 mm² (10 AWG) or from 6 mm² (10 AWG) to 2.5 mm² (14 AWG) (see illustration above).



Note:

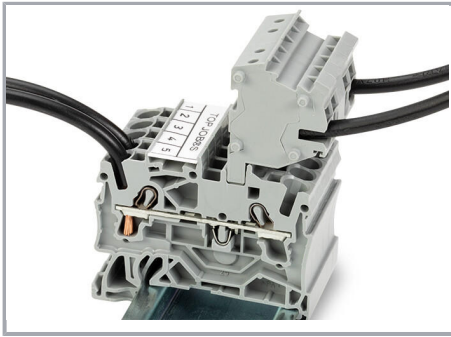
The total current of the outgoing circuits shall not exceed the nominal current of the step-down jumper/push-in type jumper bar.

Testing

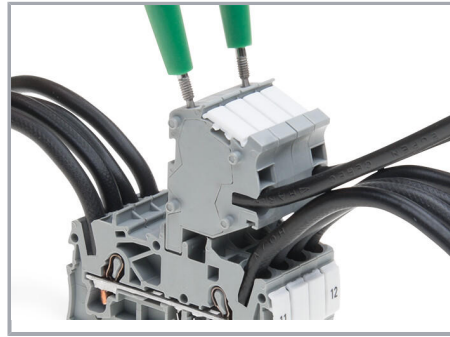
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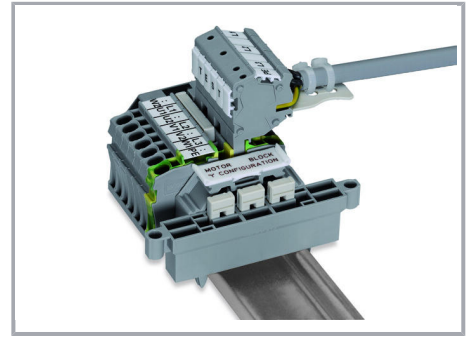
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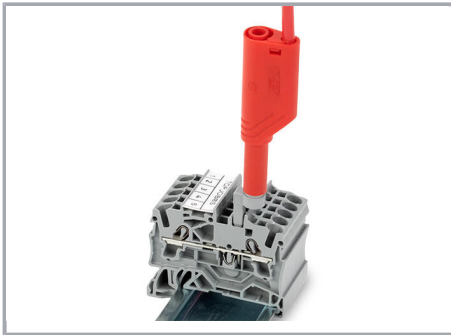
The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.



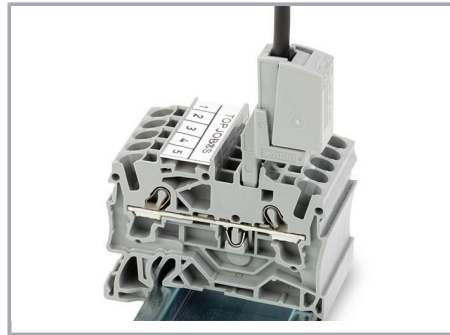
TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester



Rail-mount terminal block assembly for electric motor wiring

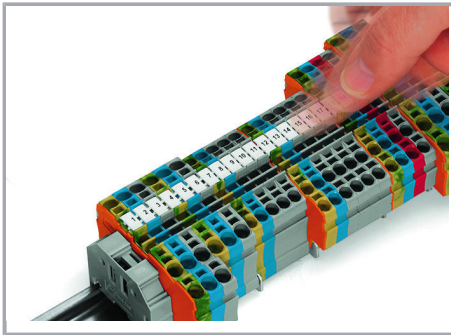


Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

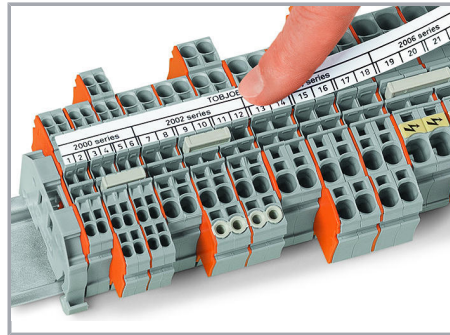


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking



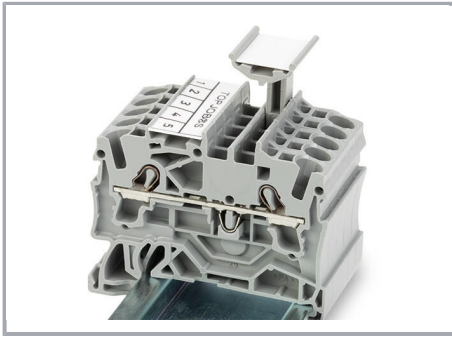
Snapping WMB Inline markers into marker slots.



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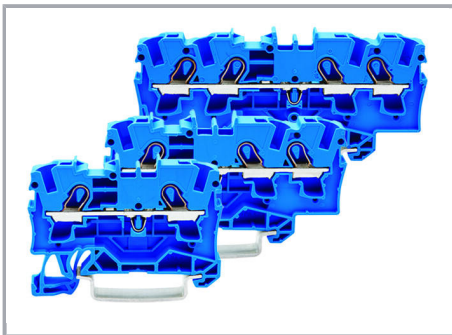
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TOPJOB® S 2009-193 Group Marker Carrier (equipped with a marking strip) for all 2001 to 2016 Series TOPJOB® S Rail-Mount Terminal Blocks

Do not use on an end plate!

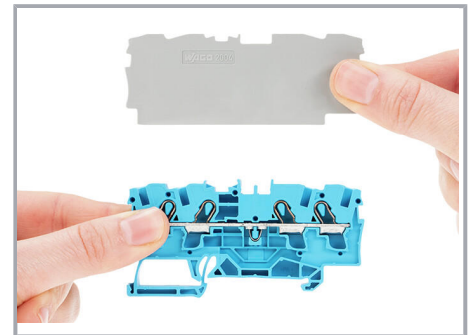
Ex application



Through terminal blocks with a blue insulated housing are suitable for Ex i applications.



All through and ground conductor terminal blocks are suitable for Ex e II applications.



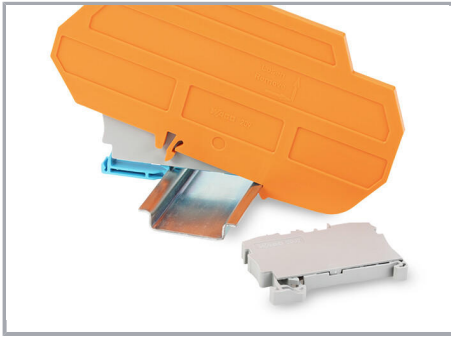
Separator for Ex e/Ex applications

An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.

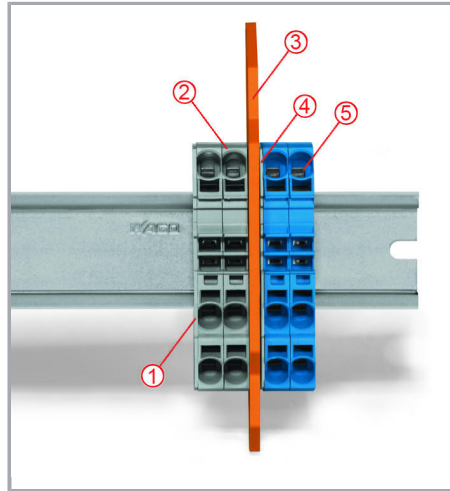
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Ex e II/Ex i terminal strip



Notice:

The movable feet of terminal blocks and separator plates must face the same direction.

Separator located between Ex e II and Ex i terminal strip

End plate

Ex e II terminal blocks

Separator for Ex e/Ex i applications

End plate

Ex i terminal blocks

According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common carrier rail.

Семейство продукти

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TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

Показване на всички продукти от семейството.

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