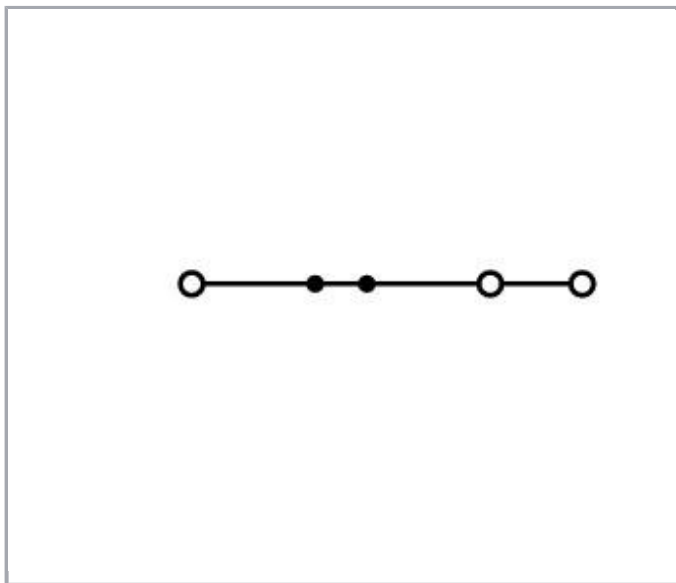
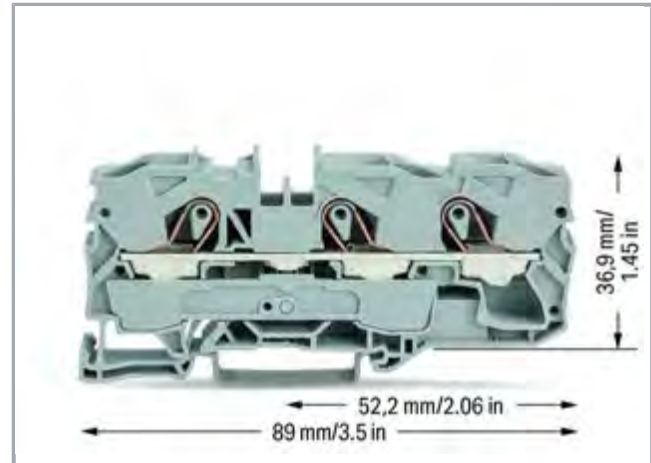


Data sheet | Item number: 2010-1301

3-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



Data

Electrical data

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



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

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

Approvals 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

Approvals Ex

Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	50 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
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

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



Strip length	17 ... 19 mm / 0.67 ... 0.75 inch
Total number of connection points	3
Total number of potentials	1
Number of levels	1
Wiring type	Front-entry wiring
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Number of jumper slots	2

Geometrical Data

Width	10 mm / 0.394 inch
Height from upper-edge of DIN-rail	36,9 mm / 1.453 inch
Depth	89 mm / 3.504 inch

Mechanical data

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

Material Data

Color	gray
Insulation material	Polyamide 66 (PA 66)
Fire load	0.381 MJ
Weight	24.7 g

Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	DE
GTIN	4017332011341
Customs tariff number	85369010000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	AEx	UL 60079	E185892

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



UL International Germany GmbH c/o Physikalisch
Technische Bundesanstalt

sec.21

	ATEx Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 05 ATEX 1070 U (II 2 G Ex eII bzw.I M2 Ex el)
	IECEX Physikalisch Technische Bundesanstalt (PTB)	IEC 60079	IECEX PTB 06.0003 U (Ex e IIC Gb and Ex e I Mb)

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	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

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/A0 BV

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



	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
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LR Lloyds Register	EN 60947	91/20112 (E9)
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UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1059	E45172

Compatible products

Carrier rail



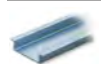
Item no.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715



Item no.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715



Item no.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715



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.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715

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

**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

tools**Item no.: 210-721**

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft

End plate**Item no.: 209-191**

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

protection**Item no.: 2010-100**

Finger guard; touchproof cover protects unused conductor entries; yellow

check**Item no.: 2009-174**

Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

**Item no.: 2009-182**

Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

**Item no.: 2010-511**

Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 10,00 mm²; gray

**Item no.: 2010-549**

Spacer module; modular; e.g., for bridging commoned terminal blocks; gray

Jumper**Item no.: 2010-402**

Jumper; 2-way; insulated; light gray

**Item no.: 2010-403**

Jumper; 3-way; insulated; light gray

**Item no.: 2010-404**

Jumper; 4-way; insulated; light gray

**Item no.: 2010-405**

Jumper; 5-way; insulated; light gray

**Item no.: 2010-405/011-000**

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

**Item no.: 2010-433**

Jumper; from 1 to 3; insulated; light gray

**Item no.: 2010-434**

Jumper; from 1 to 4; insulated; light gray

Item no.: 2010-435

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



Jumper; from 1 to 5; insulated; light gray



Item no.: 2016-499

Step-down jumper; insulated; light gray



Item no.: 285-430

Step-down jumper; insulated; gray

ferrule



Item no.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item no.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item no.: 216-287

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item no.: 216-288

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow



Item no.: 216-289

Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Marking accessories



Item no.: 2009-110

Marking strips; on reel; not stretchable; plain; snap-on type; white



Item no.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item no.: 2009-115/000-002

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item no.: 2009-115/000-006

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item no.: 2009-115/000-007

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item no.: 2009-115/000-012

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item no.: 2009-115/000-017

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

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

**Item no.: 2009-115/000-023**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

**Item no.: 2009-115/000-024**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**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.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

**Item no.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

**Item no.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

**Item no.: 2009-145/000-007**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

**Item no.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item no.: 2009-145/000-023**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

**Item no.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**Item no.: 2009-191**

Group marker carrier

**Item no.: 2009-192**

Group marker carrier

**Item no.: 2009-193**

Group marker carrier

**Item no.: 2009-198**

Adaptor

**Item no.: 248-501**

Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card

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



Item no.: 248-501/000-002

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



Item no.: 248-501/000-005

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



Item no.: 248-501/000-006

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



Item no.: 248-501/000-007

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



Item no.: 248-501/000-012

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



Item no.: 248-501/000-017

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



Item no.: 248-501/000-023

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



Item no.: 248-501/000-024

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



Item no.: 793-501

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



Item no.: 793-501/000-002

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



Item no.: 793-501/000-005

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



Item no.: 793-501/000-006

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



Item no.: 793-501/000-007

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



Item no.: 793-501/000-012

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

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

**Item no.: 793-501/000-017**

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

**Item no.: 793-501/000-023**

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

**Item no.: 793-501/000-024**

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

**Item no.: 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

**Item no.: 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

**Item no.: 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

**Item no.: 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

**Item no.: 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

**Item no.: 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

**Item no.: 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

**Item no.: 793-5501/000-023**

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

**Item no.: 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

Protective Warning Marker**Item no.: 2010-115**

Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

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



Item no.: 2016-115

Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 2010-1301

CAE data

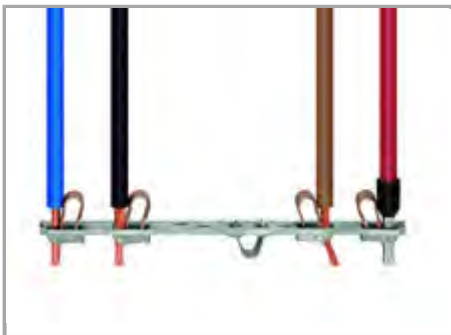
EPLAN Data Portal 2010-1301

WSCAD Universe 2010-1301

ZUKEN Portal 2010-1301

Installation Notes

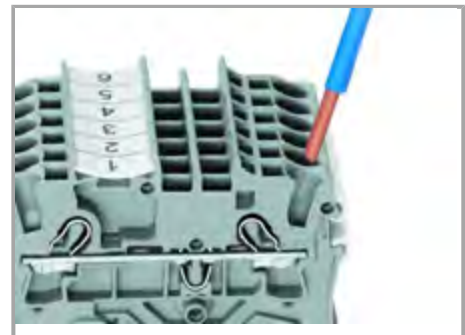
Conductor termination



All conductor types at a glance



Terminating solid and ferruled conductors via push-in connection.



Inserting conductors via push-in termination.

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.

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



Inserting a conductor via operating tool.

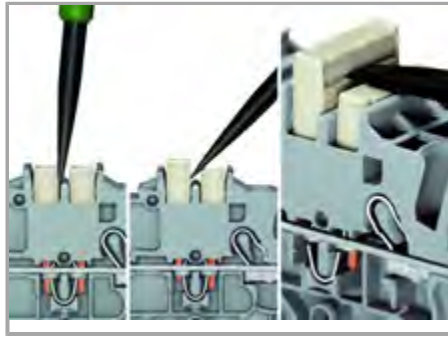
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

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

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



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.

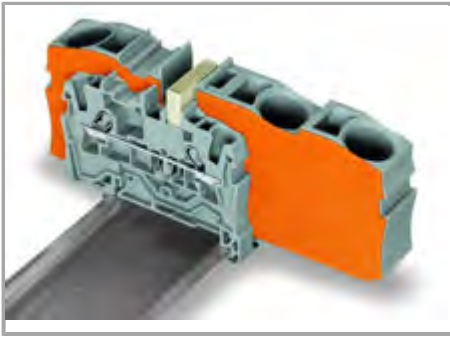
Commoning



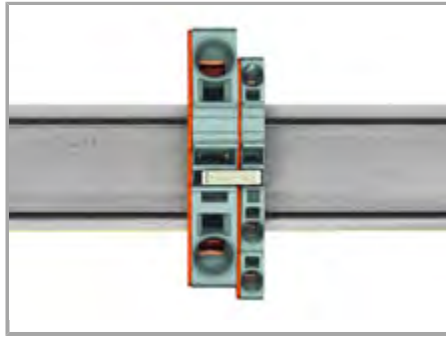
This star point jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.

Commoning

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



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.



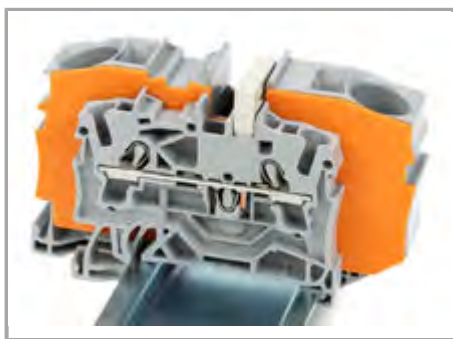
Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.



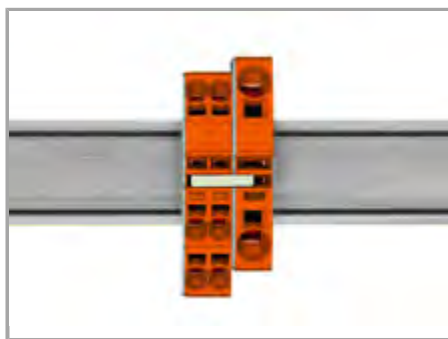
Step-down jumper (2006-499) commons 6 /4 mm² (10/12 AWG) terminal blocks (2006 /2004 Series) with 4/2.5/1.5 mm² (12/14/16 AWG) terminal blocks (2004/2002/2001 Series).

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.

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

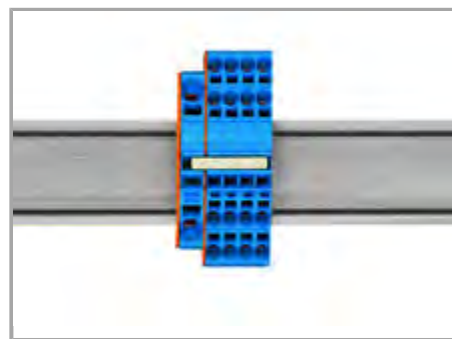


Step-down jumper (2016-499) commons 16 /10 mm² (16/8 AWG) terminal blocks (2016 /2010 Series) with 10/6/4/2.5 mm² (8/10/12 /14 AWG) terminal blocks (2010/2006/2004 /2002 Series).



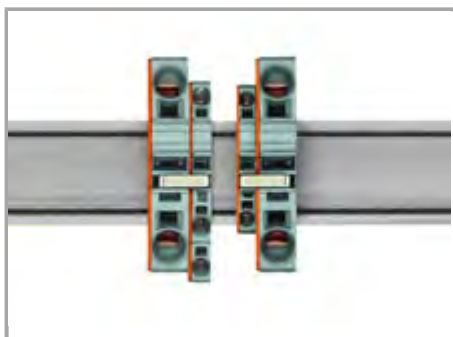
Stepping down via push-in type jumper bar.

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

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



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

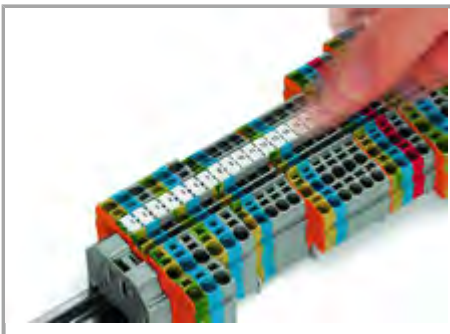


Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

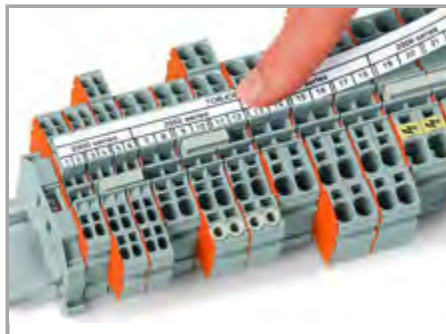


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking



Snapping WMB Inline markers into marker slots.



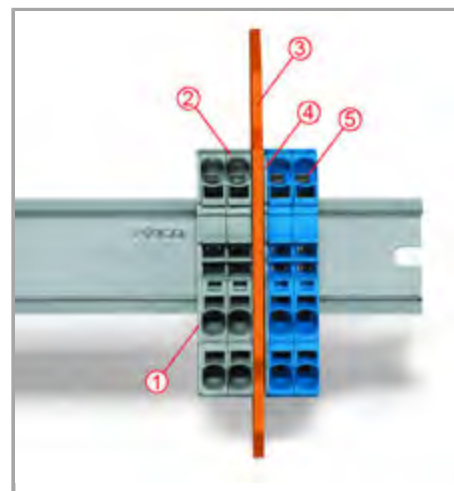
Subject to changes. Please also observe the further product documentation!



Separator for Ex e/Ex applications



Ex e II/Ex i terminal strip



Separator located between Ex e II and Ex i terminal strip

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

Notice:

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

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.

Product family

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



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.

[Show all products from the family](#)

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