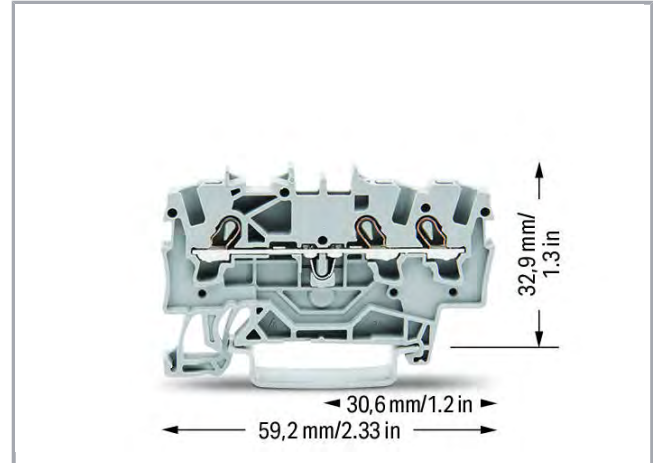
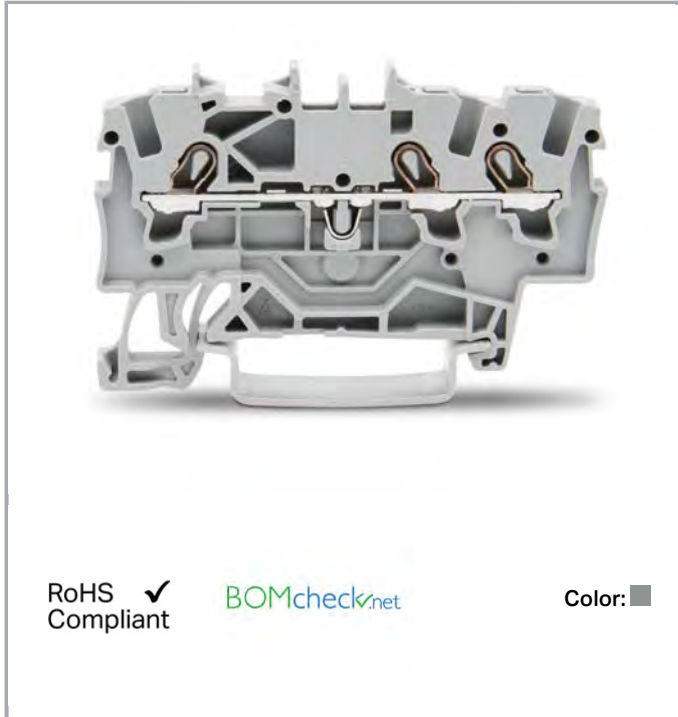


Data sheet | Item number: 2001-1301

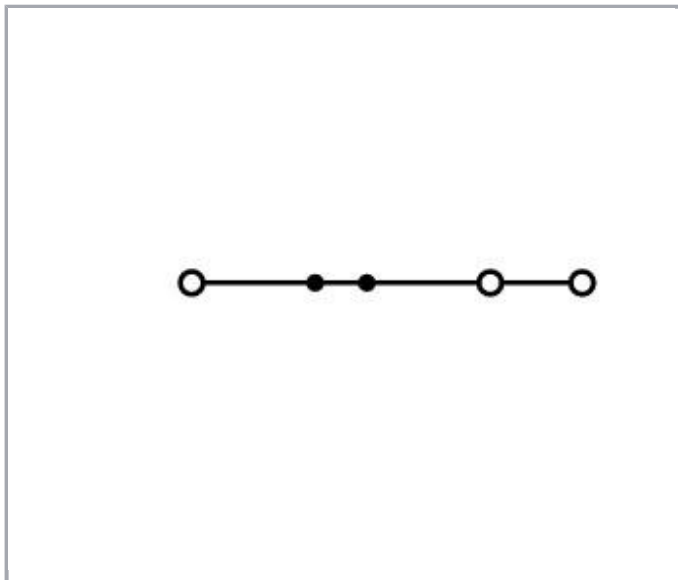
3-conductor through terminal block; 1.5 mm²; suitable for Ex e II applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,50 mm²; gray



RoHS
Compliant



Color: ■



Data

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

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60947-7-1
Rated voltage (III / 3)	800 V
Rated impulse voltage (III / 3)	8 kV
Rated current	18 A
Rated current (2)	24 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)	15 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	15 A
Approvals per	UL 1059

Approvals per CSA

Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	15 A

Approvals Ex

Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	17 A
Rated current (Ex e II) with jumper	16 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
Connectable conductor materials	Copper
Nominal cross section	1,5 mm ²
Solid conductor	0,25 ... 2,5 mm ² / 22 ... 14 AWG
Solid conductor, push-in termination	0,75 ... 2,5 mm ² / 18 ... 14 AWG

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



Fine-stranded conductor	0,25 ... 2,5 mm ² / 22 ... 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0,75 ... 1,5 mm ² / 18 ... 16 AWG
Fine-stranded conductor with ferrule, push-in termination, from	0,75 ... 1,5 mm ² / 18 ... 16 AWG
Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
Total number of connection points	3
Total number of potentials	1
Number of levels	1
Type of wiring	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	4,2 mm / 0.165 inch
Height from upper-edge of DIN-35 rail	32,9 mm / 1.295 inch
Depth	59,2 mm / 2.33 inch

Mechanical data

Design	horizontal type
Type of mounting	DIN-35 rail
Marking level	Center/side marking

Material Data

Color	gray
Insulating material	Polyamide 66 (PA 66)
Weight	4.9 g

Commercial data



Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	DE
GTIN	4017332998628
Customs Tariff No.	85369010000

Approvals / Certificates




Ex-Approvals

Certificate




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

Logo	Approval	Additional Approval Text	name
	ATEx Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 05 ATEX 1094 U (II 2 G Ex e II bzw. I M 2 Ex e I)
	IECEX Physikalisch Technische Bundesanstalt (PTB)	IEC 60079	IECEX PTB 11.0093U (Ex e IIC Gb or Ex e I Mb)

Country specific Approvals


Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	2160584.07
	CCA DEKRA Certification B.V.	EN 60947	NTR NL- 7084
	CSA DEKRA Certification B.V.	C22.2 No. 158	1645434

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

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







UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1059	20190731-E45172

Counterpart

Compatible products

check

	Item no.: 2001-511 Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 1,50 mm ² ; gray
	Item no.: 2001-549 Spacer module; modular; e.g., for bridging commoned terminal blocks; gray
	Item no.: 2001-552 Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 1,50 mm ² ; gray
	Item no.: 2001-553 Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 1,50 mm ² ; gray
	Item no.: 2001-554 Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 1,50 mm ² ; gray
	Item no.: 2001-555 Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 1,50 mm ² ; gray
	Item no.: 2001-556 Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 1,50 mm ² ; gray
	Item no.: 2001-557 Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 1,50 mm ² ; gray

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


Item no.: 2001-558

Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 1,50 mm²; gray


Item no.: 2001-559

Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 1,50 mm²; gray


Item no.: 2001-560

Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 1,50 mm²; gray


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

Protective Warning Marker

Item no.: 2001-115

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

ferrule

Item no.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white


Item no.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray


Item no.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red


Item no.: 216-244

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

Carrier rail

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


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.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm


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

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


Item no.: 210-197

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


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

End plate

Item no.: 2002-1391

End and intermediate plate; 0.8 mm thick; gray


Item no.: 2002-1392

End and intermediate plate; 0.8 mm thick; orange


Item no.: 2002-1393

Separator plate; 2 mm thick; oversized; gray


Item no.: 2002-1394

Separator plate; 2 mm thick; oversized; orange


Item no.: 209-191

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

Jumper

Item no.: 2001-402

Push-in type jumper bar; insulated; 2-way; Nominal current 18 A; light gray


Item no.: 2001-403

Push-in type jumper bar; insulated; 3-way; Nominal current 18 A; light gray


Item no.: 2001-404

Push-in type jumper bar; insulated; 4-way; Nominal current 18 A; light gray


Item no.: 2001-405

Push-in type jumper bar; insulated; 5-way; Nominal current 18 A; light gray


Item no.: 2001-405/011-000

Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray


Item no.: 2001-406

Push-in type jumper bar; insulated; 6-way; Nominal current 18 A; light gray


Item no.: 2001-406/020-000

Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray


Item no.: 2001-407

Push-in type jumper bar; insulated; 7-way; Nominal current 18 A; light gray


Item no.: 2001-408

Push-in type jumper bar; insulated; 8-way; Nominal current 18 A; light gray

Item no.: 2001-409

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



Push-in type jumper bar; insulated; 9-way; Nominal current 18 A; light gray



Item no.: 2001-410

Push-in type jumper bar; insulated; 10-way; Nominal current 18 A; light gray



Item no.: 2001-433

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 18 A; light gray



Item no.: 2001-434

Push-in type jumper bar; insulated; from 1 to 4; Nominal current 18 A; light gray



Item no.: 2001-435

Push-in type jumper bar; insulated; from 1 to 5; Nominal current 18 A; light gray



Item no.: 2001-436

Push-in type jumper bar; insulated; from 1 to 6; Nominal current 18 A; light gray



Item no.: 2001-437

Push-in type jumper bar; insulated; from 1 to 7; Nominal current 18 A; light gray



Item no.: 2001-438

Push-in type jumper bar; insulated; from 1 to 8; Nominal current 18 A; light gray



Item no.: 2001-439

Push-in type jumper bar; insulated; from 1 to 9; Nominal current 18 A; light gray



Item no.: 2001-440

Push-in type jumper bar; insulated; from 1 to 10; Nominal current 18 A; light gray



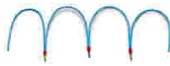
Item no.: 2006-499

Step-down jumper; insulated; from 6/4 mm² to 4/2.5/1.5 mm²; Nominal current 32 A; light gray



Item no.: 210-103

Wire commoning chain; insulated; 50 connections; black



Item no.: 210-123

Wire commoning chain; insulated; 50 connections

Insulation stop



Item no.: 2001-171

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

Push-In type wire jumper



Item no.: 2009-412

Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black



Item no.: 2009-414

Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black

















Item no.: 2009-416

Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black

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

Marking accessories

	Item no.: 2009-110 Marking strips; on reel; not stretchable; plain; snap-on type; white
	Item no.: 2009-114 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; white
	Item no.: 2009-114/000-002 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; yellow
	Item no.: 2009-114/000-005 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; red
	Item no.: 2009-114/000-006 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; blue
	Item no.: 2009-114/000-007 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; gray
	Item no.: 2009-114/000-012 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; orange
	Item no.: 2009-114/000-023 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; green
	Item no.: 2009-114/000-024 WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; violet
	Item no.: 793-4501 WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white
	Item no.: 793-4501/000-002 WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; yellow
	Item no.: 793-4501/000-005 WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; red
	Item no.: 793-4501/000-006 WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue
	Item no.: 793-4501/000-007 WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; gray

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



Item no.: 793-4501/000-012

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; orange



Item no.: 793-4501/000-017

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; green



Item no.: 793-4501/000-023

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; light green



Item no.: 793-4501/000-024

WMB marking card; as card; stretchable 4 - 4.2 mm; 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



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

tools

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



Item no.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



Item no.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Downloads

Documentation

Additional Information

Technical explanations

Apr 3, 2019

CAD/CAE-Data

CAD data

2D/3D Models 2001-1301

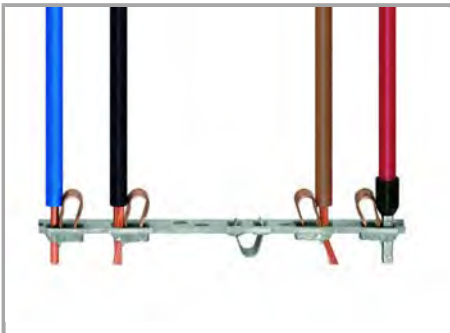
CAE data

EPLAN Data Portal 2001-1301

WSCAD Universe 2001-1301

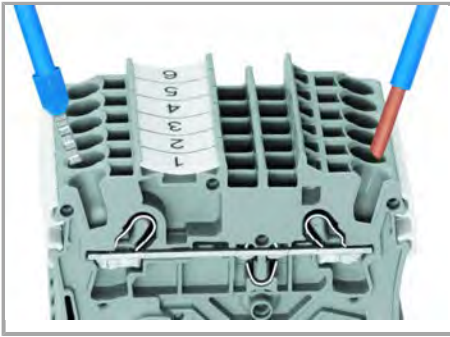
Installation Notes

Conductor termination

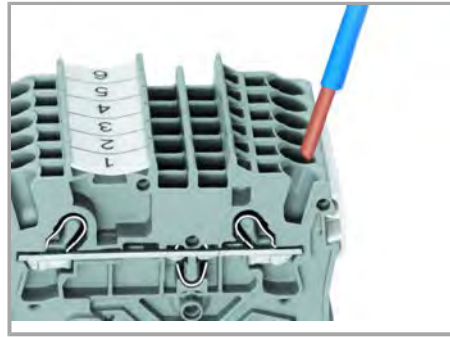


All conductor types at a glance

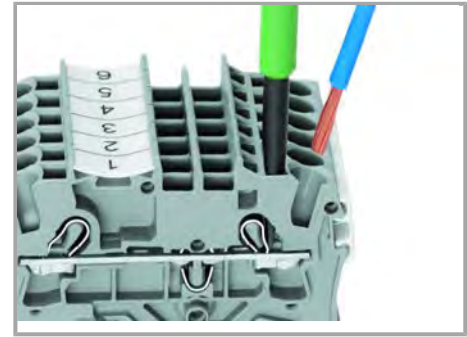
Subject to changes. Please also observe the further product documentation!



Terminating solid and ferruled conductors via push-in connection.



Inserting conductors via push-in termination.



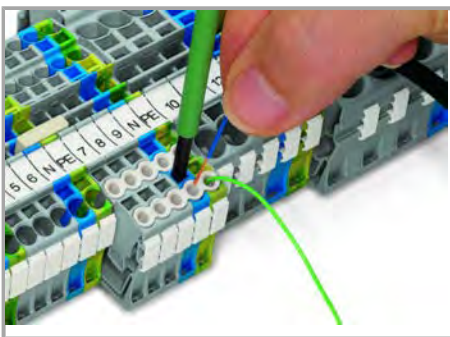
Inserting a conductor via operating tool.

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:

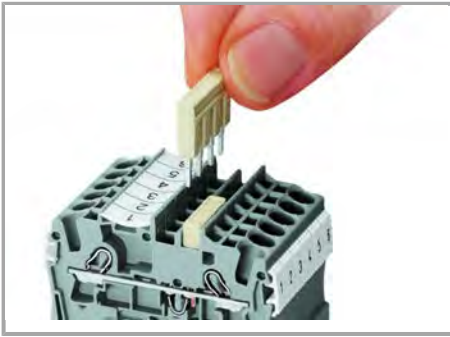
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.



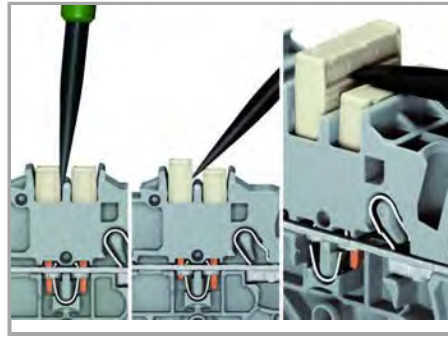
Conductor termination – Insulation stop.

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).

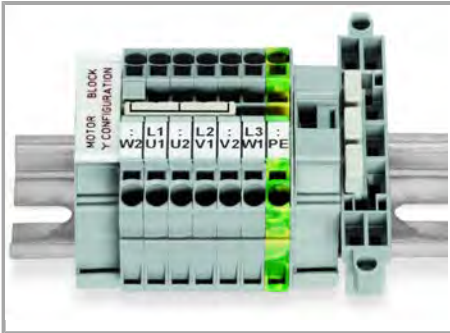


Removing a push-in type jumper bar.

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.

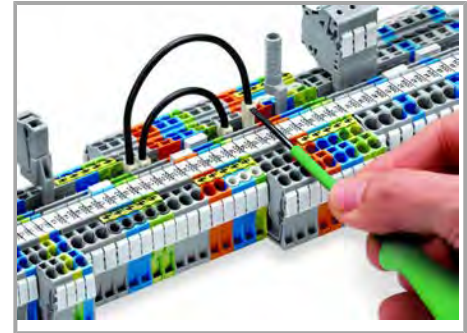
Commoning



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.



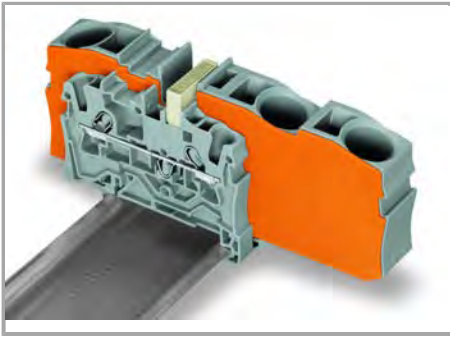
This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



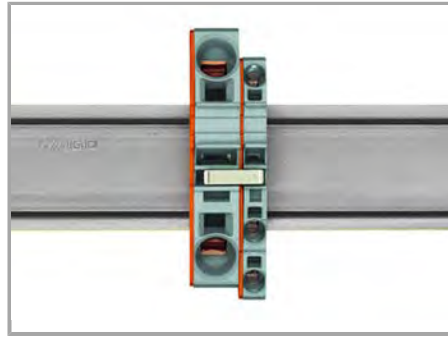
Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

Commoning

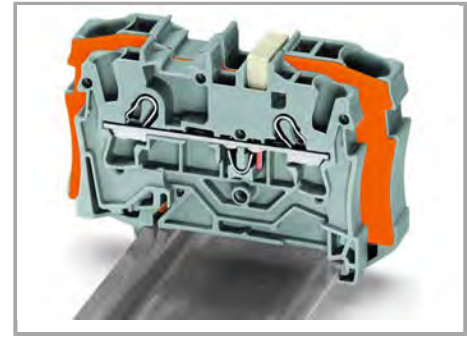
Subject to changes. Please also observe the further product documentation!



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.



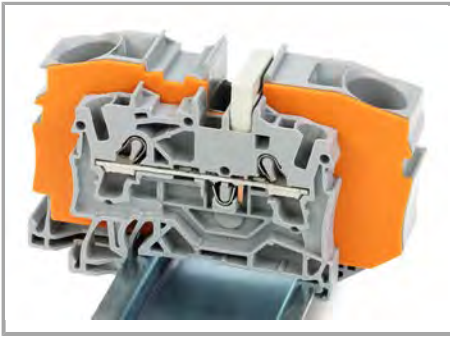
Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.



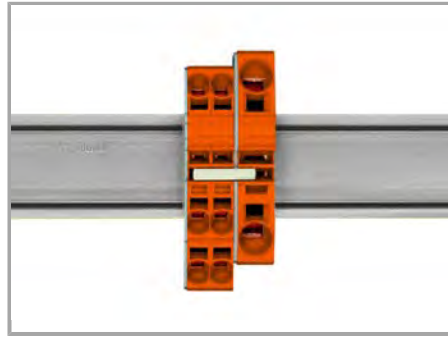
Step-down jumper (2006-499) commons 6 /4 mm² (10/12 AWG) terminal blocks (2006 /2004 Series) with 4/2.5/1.5 mm² (12/14/16 AWG) terminal blocks (2004/2002/2001 Series).

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!

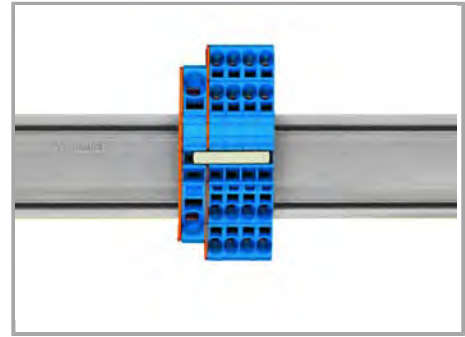


Step-down jumper (2016-499) commons 16 /10 mm² (16/8 AWG) terminal blocks (2016 /2010 Series) with 10/6/4/2.5 mm² (8/10/12 /14 AWG) terminal blocks (2010/2006/2004 /2002 Series).



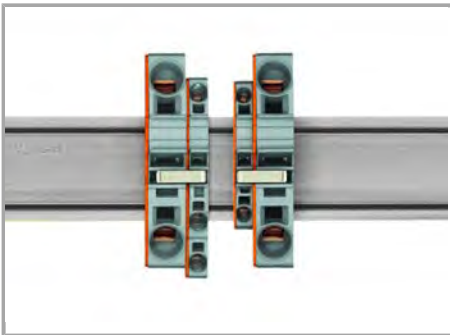
Stepping down via push-in type jumper bar.

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).

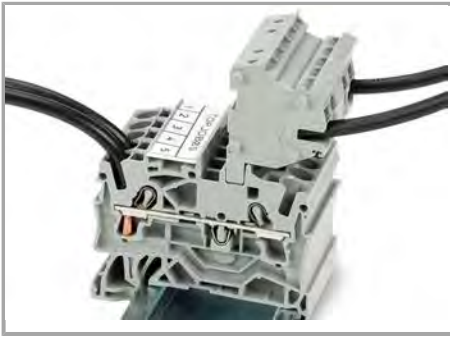


Note:

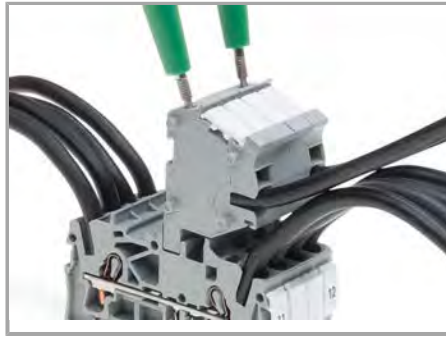
The total current of the outgoing circuits shall not exceed the nominal current of the step-down jumper/push-in type jumper bar.

Testing

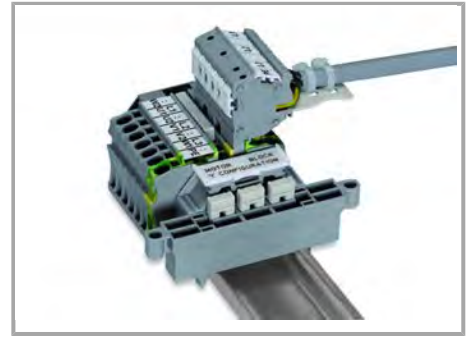
Subject to changes. Please also observe the further product documentation!



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

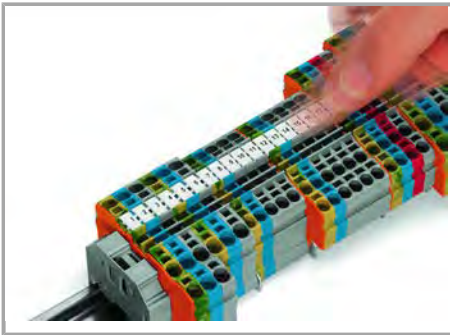


Test plug adapter (2009-174, CAT II) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

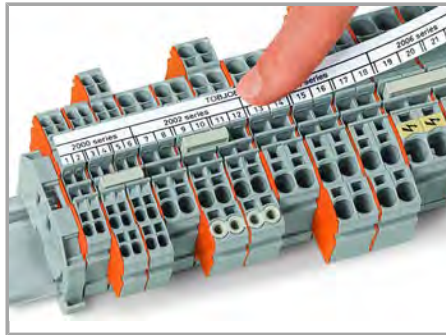


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking



Snapping WMB Inline markers into marker slots.

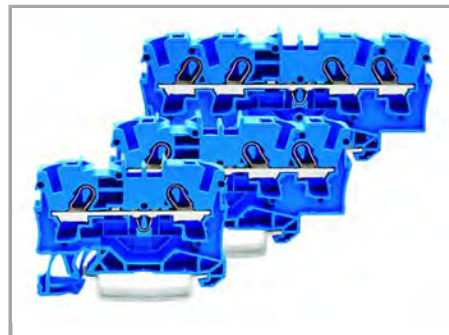


Subject to changes. Please also observe the further product documentation!



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!

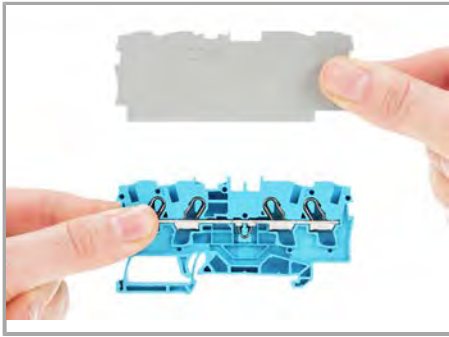


Through terminal blocks with a blue
insulated housing are suitable for Ex i
applications.



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

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



Separator for Ex e/Ex applications

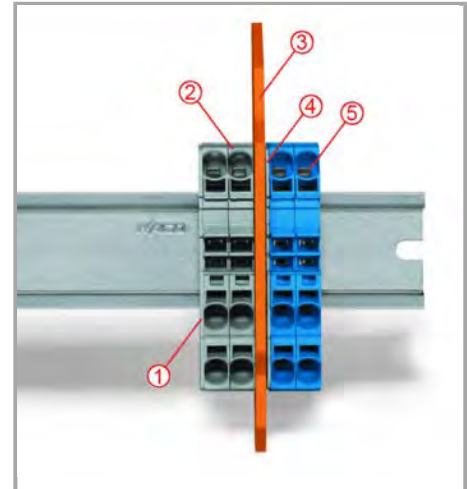
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.



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.

Product family

TOPJOB® S

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



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!

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