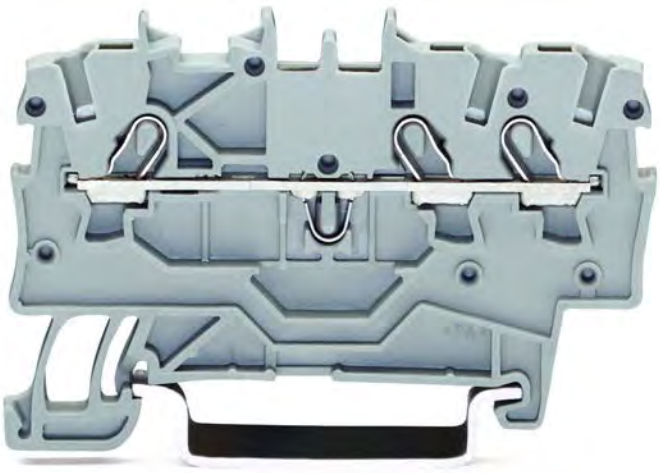
Data sheet | Item number: 2000-1301

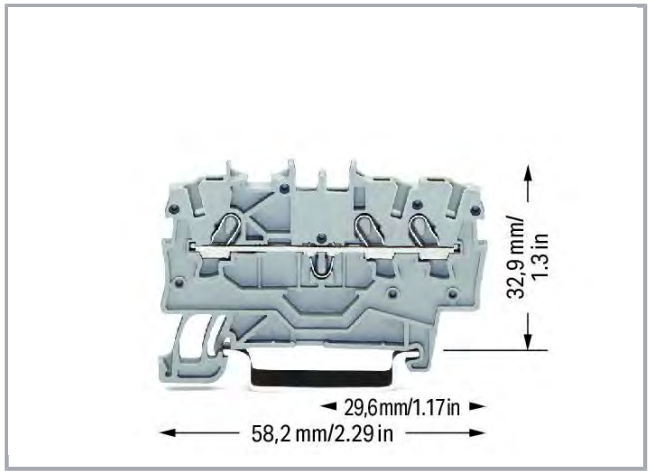
3-conductor through terminal block; 1 mm²; suitable for Ex e II applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

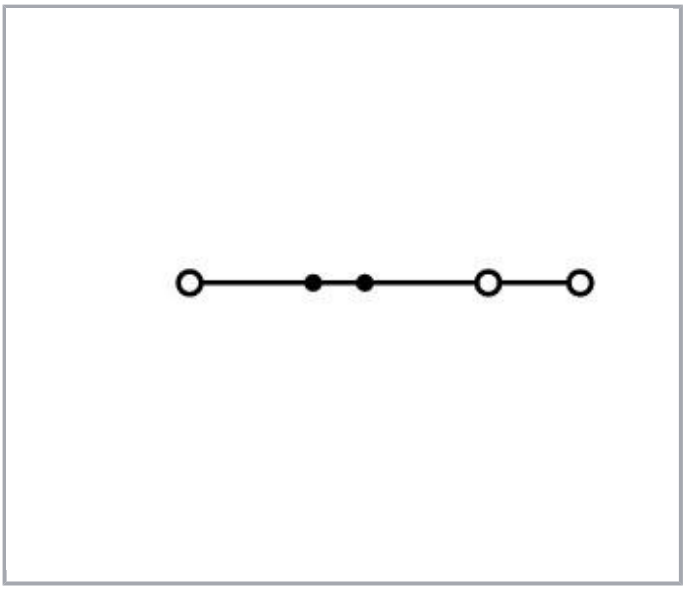


RoHS ✓ Compliant

BOMcheck.net

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	13.5 A
Rated current (2)	17.5 A
Legend (ratings)	(III / 3) ≙ 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)	10 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	10 A

Approvals Ex

Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	13 A
Rated current (Ex e II) with jumper	12 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
Connectable conductor materials	Copper
Nominal cross section	1 mm²
Solid conductor	0,14 … 1,5 mm² / 24 … 16 AWG
Solid conductor, push-in termination	0,5 … 1,5 mm² / 20 … 16 AWG

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

Fine-stranded conductor	0,14 … 1,5 mm² / 24 … 16 AWG
Fine-stranded conductor with ferrule with plastic collar	0,5 … 0,75 mm² / 20 … 18 AWG
Fine-stranded conductor with ferrule, push-in termination, from	0,5 … 0,75 mm² / 20 … 18 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	3,5 mm / 0.138 inch
Height from upper-edge of DIN-35 rail	32,9 mm / 1.295 inch
Depth	58,2 mm / 2.291 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)
Fire load	0.088 MJ
Weight	4.2 g

Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	CN
GTIN	4045454966843
Customs Tariff No.	85369010000

Approvals / Certificates

Ex-Approvals

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

Logo	Approval	Additional Approval Text	Certificate name
	ATEX Physikalisch Technische Bundesanstalt	EN 60079	PTB 11 ATEX 1041 U (II 2 G Ex e IIC GB / I M 2 Ex e I Mb)

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	71-102841
	CSA DEKRA Certification B.V.	C22.2 No. 158	2130762

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	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)

Counterpart

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

Compatible products

Protective Warning Marker	
	**Item no.: 2000-115** Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow
tools	
	**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
Push-In type wire jumper	
	**Item no.: 2009-402** Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 0.75 mm²; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray
	**Item no.: 2009-404** Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 0.75 mm²; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray
	**Item no.: 2009-406** Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 0.75 mm²; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray
End plate	
	**Item no.: 2000-1391** End and intermediate plate; 0.7 mm thick; gray
	**Item no.: 2000-1392** End and intermediate plate; 0.7 mm thick; orange
	**Item no.: 209-191** Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange
ferrule	
	Item no.: 216-241

Subject to changes.

	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

Marking accessories

	**Item no.: 2009-110** Marking strips; on reel; not stretchable; plain; snap-on type; white
	**Item no.: 2009-113** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white
	**Item no.: 2009-113/000-002** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow
	**Item no.: 2009-113/000-005** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red
	**Item no.: 2009-113/000-006** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue
	**Item no.: 2009-113/000-007** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray
	**Item no.: 2009-113/000-012** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange
	**Item no.: 2009-113/000-017** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green
	**Item no.: 2009-113/000-023** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green
	**Item no.: 2009-113/000-024** WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet
	**Item no.: 2009-191** Group marker carrier

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

Item no.: 793-3501
WMB marking card; as card; plain; snap-on type; white

Jumper

Item no.: 2000-402
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; light gray

Item no.: 2000-402/000-005
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; red

Item no.: 2000-402/000-006
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; blue

Item no.: 2000-402/000-018
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; yellow-green

Item no.: 2000-403
Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; light gray

Item no.: 2000-403/000-005
Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; red

Item no.: 2000-403/000-006
Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; blue

Item no.: 2000-404
Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; light gray

Item no.: 2000-404/000-005
Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; red

Item no.: 2000-404/000-006
Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; blue

Item no.: 2000-405
Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; light gray

Item no.: 2000-405/000-005
Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; red

Item no.: 2000-405/000-006
Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; blue

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

Item no.: 2000-405/011-000
Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray

Item no.: 2000-406
Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; light gray

Item no.: 2000-406/000-005
Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; red

Item no.: 2000-406/000-006
Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; blue

Item no.: 2000-406/020-000
Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray

Item no.: 2000-407
Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; light gray

Item no.: 2000-407/000-005
Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; red

Item no.: 2000-407/000-006
Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; blue

Item no.: 2000-408
Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; light gray

Item no.: 2000-408/000-005
Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; red

Item no.: 2000-408/000-006
Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; blue

Item no.: 2000-409
Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; light gray

Item no.: 2000-409/000-005
Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; red

Item no.: 2000-409/000-006
Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; blue

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

	**Item no.: 2000-410** Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; light gray
	**Item no.: 2000-410/000-005** Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; red
	**Item no.: 2000-410/000-006** Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; blue
	**Item no.: 2000-433** Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; light gray
	**Item no.: 2000-433/000-005** Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; red
	**Item no.: 2000-433/000-006** Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; blue
	**Item no.: 2000-434** Push-in type jumper bar; insulated; from 1 to 4; Nominal current 14 A; light gray
	**Item no.: 2000-435** Push-in type jumper bar; insulated; from 1 to 5; Nominal current 14 A; light gray
	**Item no.: 2000-436** Push-in type jumper bar; insulated; from 1 to 6; Nominal current 14 A; light gray
	**Item no.: 2000-437** Push-in type jumper bar; insulated; from 1 to 7; Nominal current 14 A; light gray
	**Item no.: 2000-438** Push-in type jumper bar; insulated; from 1 to 8; Nominal current 14 A; light gray
	**Item no.: 2000-439** Push-in type jumper bar; insulated; from 1 to 9; Nominal current 14 A; light gray
	**Item no.: 2000-440** Push-in type jumper bar; insulated; from 1 to 10; Nominal current 14 A; light gray
	**Item no.: 210-103** Wire commoning chain; insulated; 50 connections; black
	**Item no.: 210-123** Wire commoning chain; insulated; 50 connections

check

	**Item no.: 2000-510** TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1,00 mm²; gray

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

	**Item no.: 2000-511** TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1-pole; 1,00 mm²; gray
	**Item no.: 2000-549** Spacer module; modular; e.g., for bridging commoned terminal blocks; gray
	**Item no.: 2000-552** Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 1,00 mm²; gray
	**Item no.: 2000-553** Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 1,00 mm²; gray
	**Item no.: 2000-554** Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 1,00 mm²; gray
	**Item no.: 2000-555** Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 1,00 mm²; gray
	**Item no.: 2000-556** Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 1,00 mm²; gray
	**Item no.: 2000-557** Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 1,00 mm²; gray
	**Item no.: 2000-558** Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 1,00 mm²; gray
	**Item no.: 2000-559** Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 1,00 mm²; gray
	**Item no.: 2000-560** Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 1,00 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
	**Item no.: 210-136** Test plug; 2 mm Ø; with 500 mm cable; red
	**Item no.: 210-137** Test plug; 2.3 mm Ø; with 500 mm cable; yellow

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

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

	**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
	**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

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019

CAD/CAE-Data

CAD data

2D/3D Models 2000-1301

CAE data

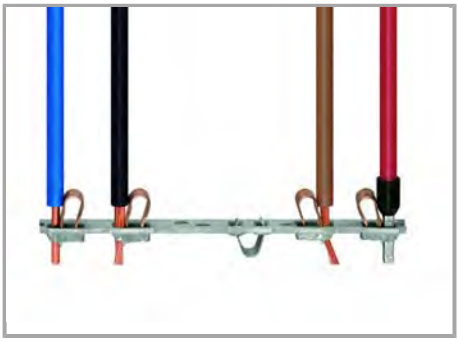
EPLAN Data Portal 2000-1301

WSCAD Universe 2000-1301

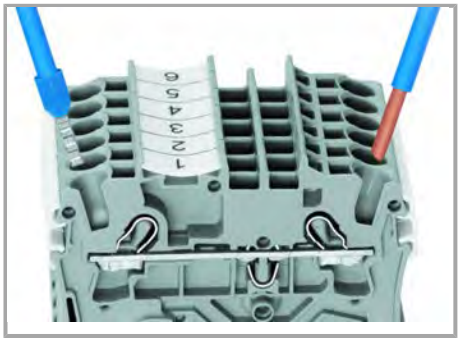
Installation Notes

Conductor termination

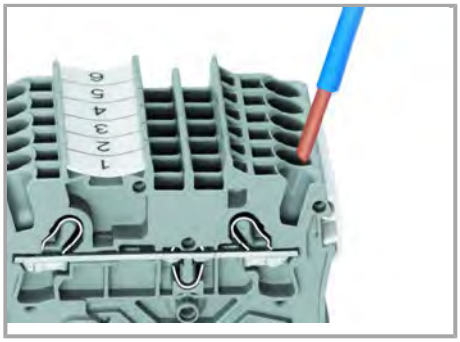
Subject to changes. Please also observe the further product documentation!



All conductor types at a glance



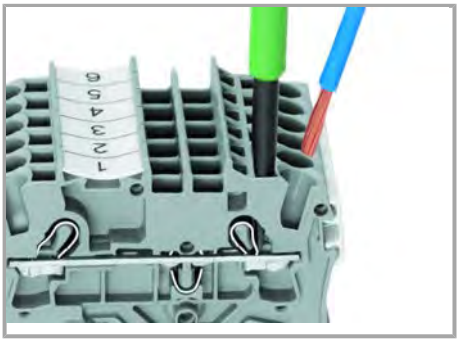
Terminating solid and ferruled conductors via push-in connection.



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!



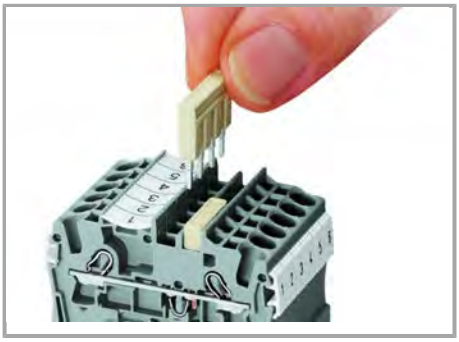
Inserting a conductor via operating tool.

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.

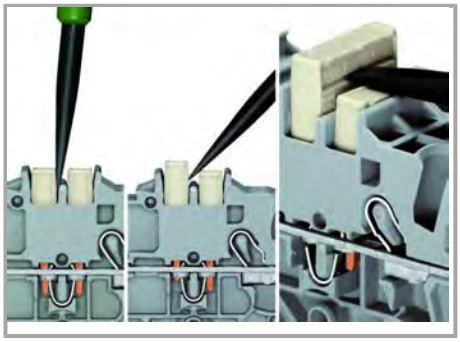
The smart feature:

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

Commoning



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).

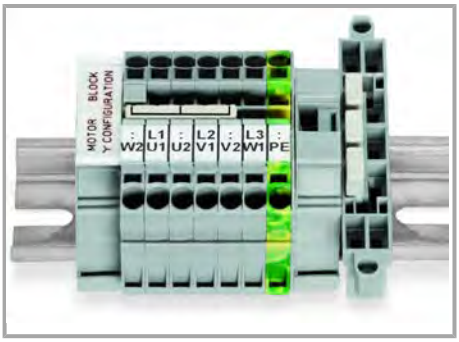


Removing a push-in type jumper bar.

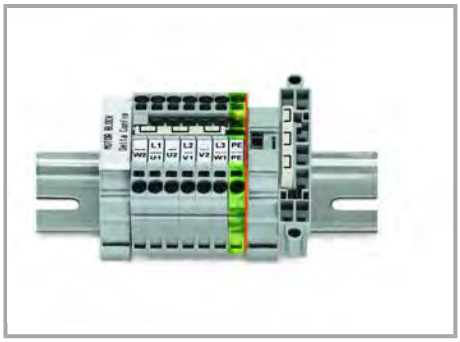
Insert the operating tool between the jumper and and partition wall of the dual jumper slots, then lift up the jumper.

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.

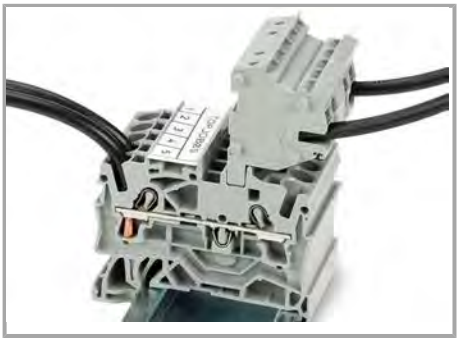


This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.

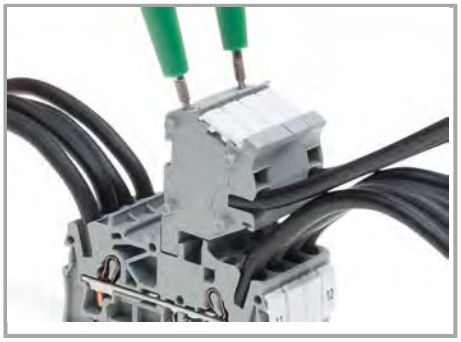
Push down the wire jumper (2009-402) until fully inserted. Lift the jumper with an operating tool for rewiring.

Testing

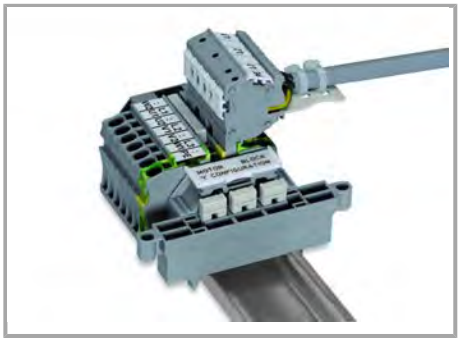
Subject to changes. Please also observe the further product documentation!



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

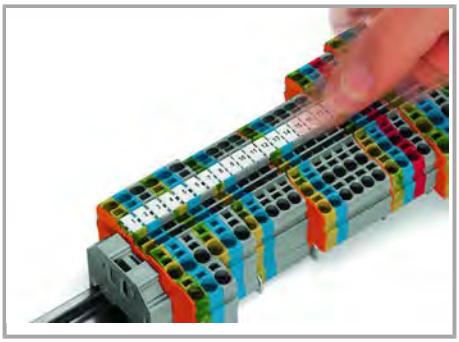


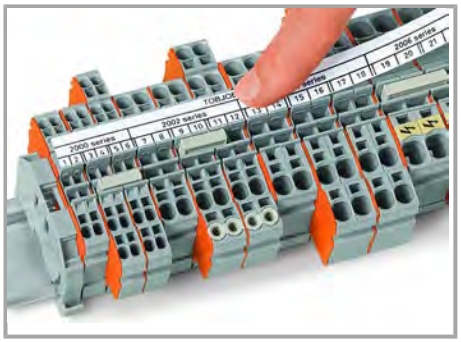
Rail-mount terminal block assembly for electric motor wiring

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



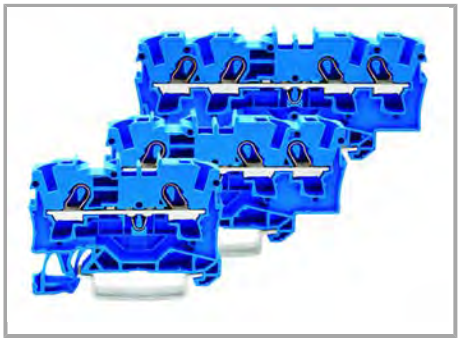


Snapping WMB Inline markers into marker slots.

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

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

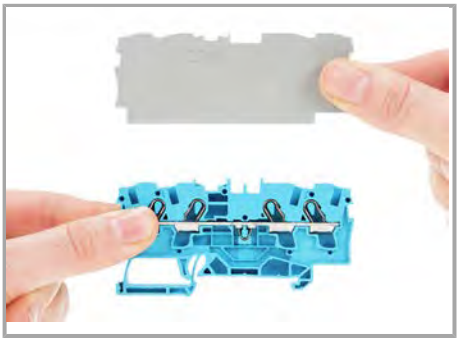
Do not use on an end plate!



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!



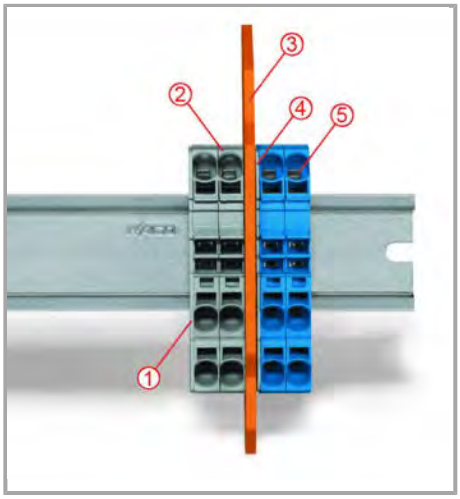
Separator for Ex e/Ex applications

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