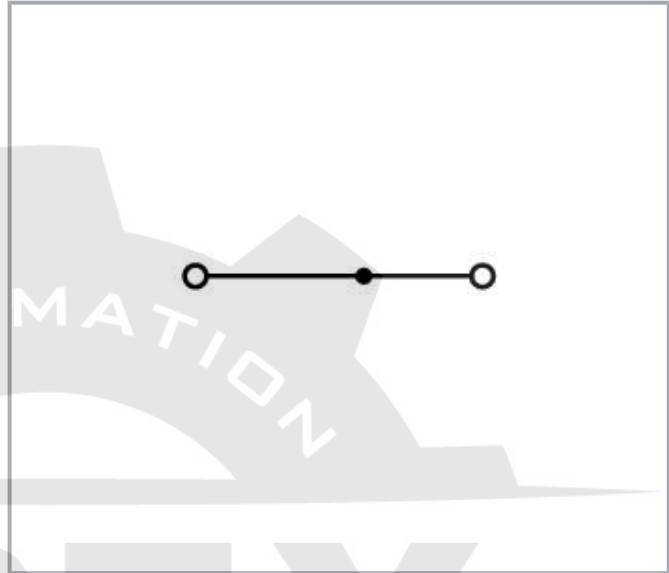
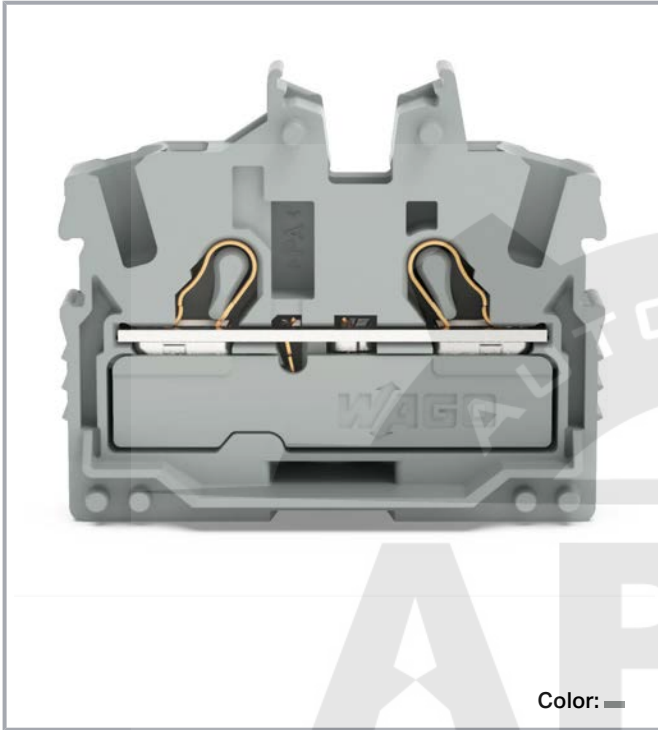


Data sheet | Item number: 2050-301

TOPJOB®S miniature feedthrough terminal block; mounting flange; 2-conductor; 3.5 mm wide; gray

www.wago.com/2050-301

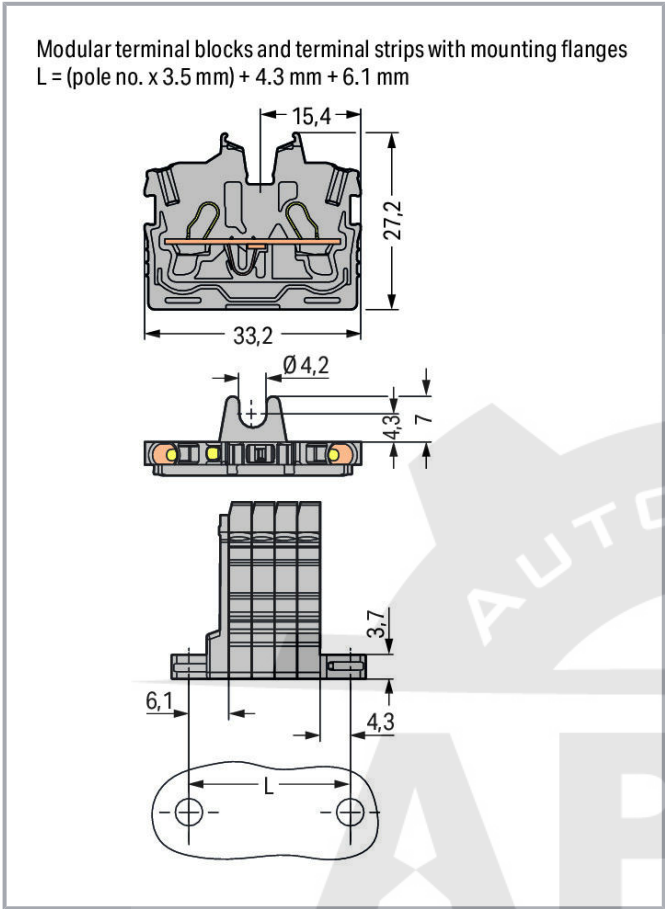


Color: —

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.



Data
Electrical data

IEC Approvals

Ratings per	IEC/EN 60947-7-1
Rated voltage (III / 3)	500 V
Rated surge voltage (III/3)	6 kV
Rated current	13.5 A
Rated current 2	17.5 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

UL Approvals

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.



Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	10 A

CSA Approvals

Approvals per	C22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A

Ex information

Ratings per	ATEX: PTB 19 ATEX 1019 U / IECEx: PTB 19.0050U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	352 V
Rated current (Ex e II)	13.5 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 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
Fine-stranded conductor	0.14 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm² / 20 ... 18 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	9 ... 11 mm / 0.35 ... 0.43 inch
Total number of connection points	2
Total number of potentials	1
Number of levels	1
Wiring direction	Front-entry wiring
Number of jumper slots	1

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

WAGO Corporation
 Germantown, WI 53022
 Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
 Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
 We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.

Physical data

Width	3.5 mm / 0.138 inch
Height from the surface	27.2 mm / 1.071 inch
Depth	33.2 mm / 1.307 inch

Mechanical data

Design	horizontal type
Mounting type	Mounting flange
Marking level	Center/side marking

Material data

Color	gray
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Weight	2.5 g

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143968645
Customs tariff number	8536904000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	AEx Underwriters Laboratories Inc.	UL 60079	E185892
	ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 19 ATEX 1019 U (II 2G Ex eb IIC Gb or I M 2 EX eb I Mb)
	CCCEX CQST/CNEx	CNCA-C23-01	2020312313000289
	IECEX	IEC 60079	IECEX PTB 19.0050

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.

Physikalisch Technische Bundesanstalt

U (Ex eb IIC Gb or
EX eb I Mb)

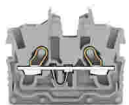
Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL 7840
	CSA CSA	C22.2 No. 158	80034182
	KEMA/KEUR DEKRA Certification B.V.	EN 60998	71- 113957

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1059	E45172- 20200212

Counterpart



Item no.2050-321

TOPJOB®S miniature feedthrough terminal block; center terminal block without snap-in foot; 2-conductor;
3.5 mm wide; graywww.wago.com/2050-321

Required accessories

End plates



Item no.: 2050-381

End plate; with fixing flange; 1.3 mm thick; gray

www.wago.com/2050-381

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

WAGO Corporation
 Germantown, WI 53022
 Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
 Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
 We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.

Optional accessories

Ferrules

	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243

Marking accessories

	Item no.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	www.wago.com/2009-113
	Item no.: 2009-113/000-002 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow	www.wago.com/2009-113/000-002
	Item no.: 2009-113/000-005 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red	www.wago.com/2009-113/000-005
	Item no.: 2009-113/000-006 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue	www.wago.com/2009-113/000-006
	Item no.: 2009-113/000-007 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray	www.wago.com/2009-113/000-007
	Item no.: 2009-113/000-012 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange	www.wago.com/2009-113/000-012
	Item no.: 2009-113/000-017 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green	www.wago.com/2009-113/000-017
	Item no.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green	www.wago.com/2009-113/000-023
	Item no.: 2009-113/000-024 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet	www.wago.com/2009-113/000-024
	Item no.: 2009-191 Group marker carrier	www.wago.com/2009-191

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

	Item no.: 793-3501 WMB marking card; as card; plain; snap-on type; white	www.wago.com/793-3501
Jumpers		
	Item no.: 2000-402 TOPJOB®S jumper; for 2000 series; insulated; 2-way; light-gray	www.wago.com/2000-402
	Item no.: 2000-402/000-005 TOPJOB®S jumper; for 2000 series; insulated; 2-way; red	www.wago.com/2000-402/000-005
	Item no.: 2000-402/000-006 TOPJOB®S jumper; for 2000 series; insulated; 2-way; blue	www.wago.com/2000-402/000-006
	Item no.: 2000-402/000-018 TOPJOB®S jumper; for 2000 series; insulated; 2-way; green-yellow	www.wago.com/2000-402/000-018
	Item no.: 2000-403 TOPJOB®S jumper; for 2000 series; insulated; 3-way; light-gray	www.wago.com/2000-403
	Item no.: 2000-403/000-005 TOPJOB®S jumper; for 2000 series; insulated; 3-way; red	www.wago.com/2000-403/000-005
	Item no.: 2000-403/000-006 TOPJOB®S jumper; for 2000 series; insulated; 3-way; blue	www.wago.com/2000-403/000-006
	Item no.: 2000-404 TOPJOB®S jumper; for 2000 series; insulated; 4-way; light-gray	www.wago.com/2000-404
	Item no.: 2000-404/000-005 TOPJOB®S jumper; for 2000 series; insulated; 4-way; red	www.wago.com/2000-404/000-005
	Item no.: 2000-404/000-006 TOPJOB®S jumper; for 2000 series; insulated; 4-way; blue	www.wago.com/2000-404/000-006
	Item no.: 2000-405 TOPJOB®S jumper; for 2000 series; insulated; 5-way; light-gray	www.wago.com/2000-405
	Item no.: 2000-405/000-005 TOPJOB®S jumper; for 2000 series; insulated; 5-way; red	www.wago.com/2000-405/000-005
	Item no.: 2000-405/000-006 TOPJOB®S jumper; for 2000 series; insulated; 5-way; blue	www.wago.com/2000-405/000-006

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

**Item no.: 2000-405/011-000**

TOPJOB®S jumper; Wye configuration; for 2000 series; insulated; 3-way (1-3-5); light-gray

www.wago.com/2000-405/011-000**Item no.: 2000-406**

TOPJOB®S jumper; for 2000 series; insulated; 6-way; light-gray

www.wago.com/2000-406**Item no.: 2000-406/000-005**

TOPJOB®S jumper; for 2000 series; insulated; 6-way; red

www.wago.com/2000-406/000-005**Item no.: 2000-406/000-006**

TOPJOB®S jumper; for 2000 series; insulated; 6-way; blue

www.wago.com/2000-406/000-006**Item no.: 2000-406/020-000**

TOPJOB®S jumper; Delta configuration; for 2000 series; insulated; 6-way (1-2, 3-4, 5-6); light-gray

www.wago.com/2000-406/020-000**Item no.: 2000-407**

TOPJOB®S jumper; for 2000 series; insulated; 7-way; light-gray

www.wago.com/2000-407**Item no.: 2000-407/000-005**

TOPJOB®S jumper; for 2000 series; insulated; 7-way; red

www.wago.com/2000-407/000-005**Item no.: 2000-407/000-006**

TOPJOB®S jumper; for 2000 series; insulated; 7-way; blue

www.wago.com/2000-407/000-006**Item no.: 2000-408**

TOPJOB®S jumper; for 2000 series; insulated; 8-way; light-gray

www.wago.com/2000-408**Item no.: 2000-408/000-005**

TOPJOB®S jumper; for 2000 series; insulated; 8-way; red

www.wago.com/2000-408/000-005**Item no.: 2000-408/000-006**

TOPJOB®S jumper; for 2000 series; insulated; 8-way; blue

www.wago.com/2000-408/000-006**Item no.: 2000-409**

TOPJOB®S jumper; for 2000 series; insulated; 9-way; light-gray

www.wago.com/2000-409**Item no.: 2000-409/000-005**

TOPJOB®S jumper; for 2000 series; insulated; 9-way; red

www.wago.com/2000-409/000-005**Item no.: 2000-409/000-006**

TOPJOB®S jumper; for 2000 series; insulated; 9-way; blue

www.wago.com/2000-409/000-006

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

WAGO Corporation
 Germantown, WI 53022
 Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
 Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
 We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.



Item no.: 2000-410
TOPJOB®S jumper; for 2000 series; insulated; 10-way; light-gray

www.wago.com/2000-410



Item no.: 2000-410/000-005
TOPJOB®S jumper; for 2000 series; insulated; 10-way; red

www.wago.com/2000-410/000-005



Item no.: 2000-410/000-006
TOPJOB®S jumper; for 2000 series; insulated; 10-way; blue

www.wago.com/2000-410/000-006



Item no.: 2000-433
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); light-gray

www.wago.com/2000-433



Item no.: 2000-433/000-005
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); red

www.wago.com/2000-433/000-005



Item no.: 2000-433/000-006
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); blue

www.wago.com/2000-433/000-006



Item no.: 2000-434
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-4); light-gray

www.wago.com/2000-434



Item no.: 2000-435
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-5); light-gray

www.wago.com/2000-435



Item no.: 2000-436
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-6); light-gray

www.wago.com/2000-436



Item no.: 2000-437
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-7); light-gray

www.wago.com/2000-437



Item no.: 2000-438
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-8); light-gray

www.wago.com/2000-438



Item no.: 2000-439
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-9); light-gray

www.wago.com/2000-439



Item no.: 2000-440
TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-10); light-gray

www.wago.com/2000-440



Item no.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110

Protective warning marker



Item no.: 2000-115
TOPJOB®S protective warning marker; with high-voltage symbol, for 2000 series terminal blocks; for 5 terminal blocks

www.wago.com/2000-115

Push-in type wire jumper



Item no.: 2009-402
TOPJOB®S wire jumper; insulated; 60 mm long; conductor cross section 0.75 mm²; suitable for 2000

www.wago.com/2009-402

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

and 2020 series terminal blocks; gray

Item no.: 2009-404

TOPJOB®S wire jumper; insulated; 110 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; gray www.wago.com/2009-404

Item no.: 2009-406

TOPJOB®S wire jumper; insulated; 250 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; gray www.wago.com/2009-406

Tools



Item no.: 210-647

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-647



Item no.: 210-648

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

www.wago.com/210-648



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Mounting



Item no.: 209-123

Mounting foot with screw; can be screwed on terminal blocks with fixing flange; 6.4 mm wide; gray

www.wago.com/209-123



Item no.: 209-137

Mounting adapter; can be used as end stop; 6.5 mm wide; gray

www.wago.com/209-137

Testing accessories



Item no.: 2009-174

TOPJOB®S test plug adapter; for test plug 4 mm Ø; for testing TOPJOB®S terminal blocks; gray

www.wago.com/2009-174



Item no.: 2009-182

TOPJOB®S testing tap; tool-free; 12 AWG max; for testing TOPJOB®S terminal blocks; gray

www.wago.com/2009-182



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable

www.wago.com/210-136

Downloads

Documentation

Additional Information

Technical explanations

Apr 3, 2019

pdf
2.2 MB

Download

CAD files

CAD data

2D/3D Models 2050-301

URL

Download

CAE data

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.



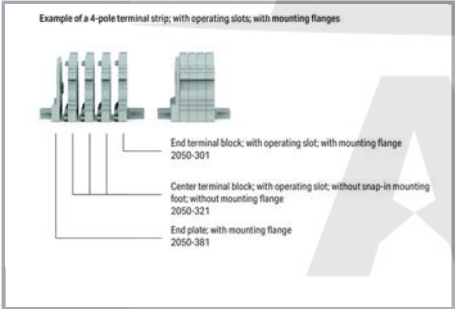
ZUKEN Portal 2050-301	URL	Download
EPLAN Data Portal 2050-301	URL	Download
	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2050-301	URL	Download
2-conductor miniature through terminal block; with operating slots; 1 mm²; with test port; side and center marking; End terminal block with mounting flange; Push-in CAGE CLAMP®; 1,00 mm²; gray		

Installation Notes



Conductor termination



Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.

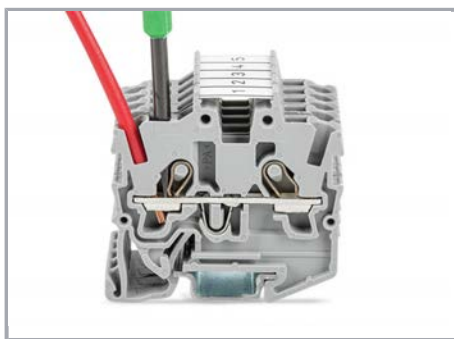


Insert fine-stranded conductors via operating tool.

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.

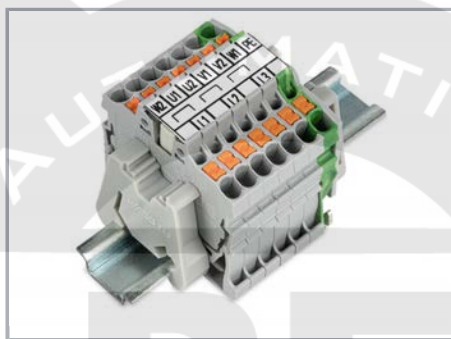


Remove all conductors via operating tool.

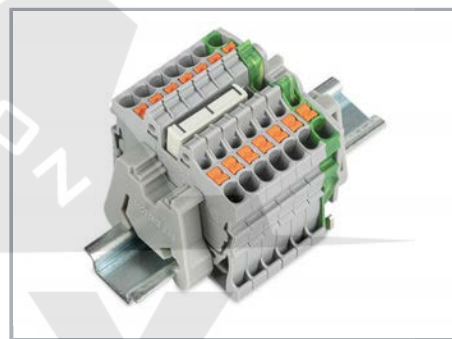
Commoning



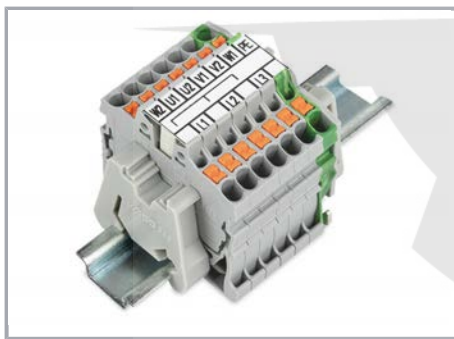
Insert a jumper (delta jumper) and push down until it hits the backstop (picture shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (picture shows terminal blocks with push-buttons)



Insert a jumper (star point jumper) and push down until it hits the backstop (picture shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (picture shows terminal blocks with push-buttons)

Testing

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

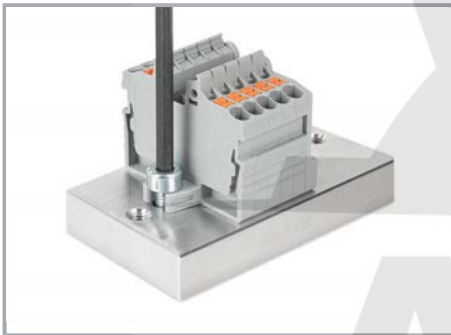
WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.

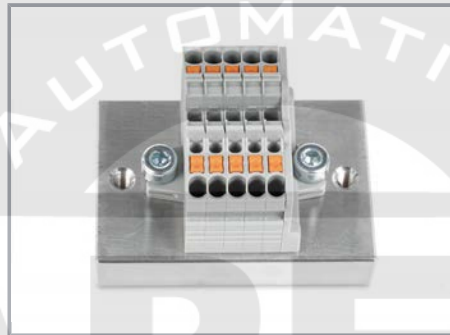


Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

Installation



Mounting and securing a terminal strip directly to the plate via screw-type flanges (picture shows terminal blocks with push-buttons).



Terminal strip; with mounting flanges; screw mounting (picture shows terminal blocks with push-buttons)

Marking



Snapping a WMB marking strip into a marker slot.



Snapping a marking strip (2009-110) into a marker slot.

Product family

TOPJOB® S

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.



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!

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.