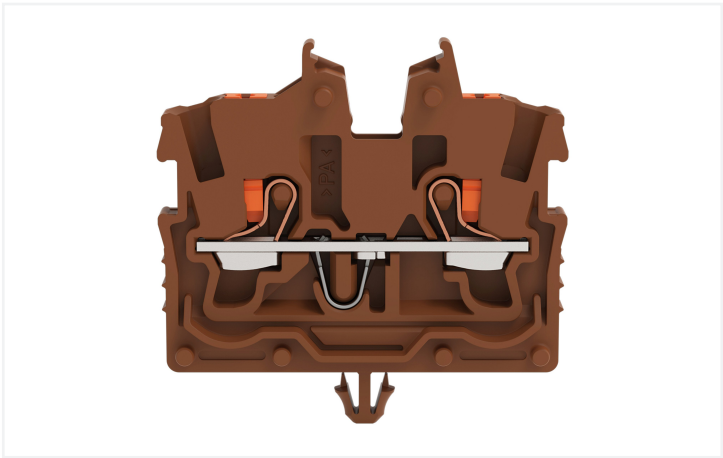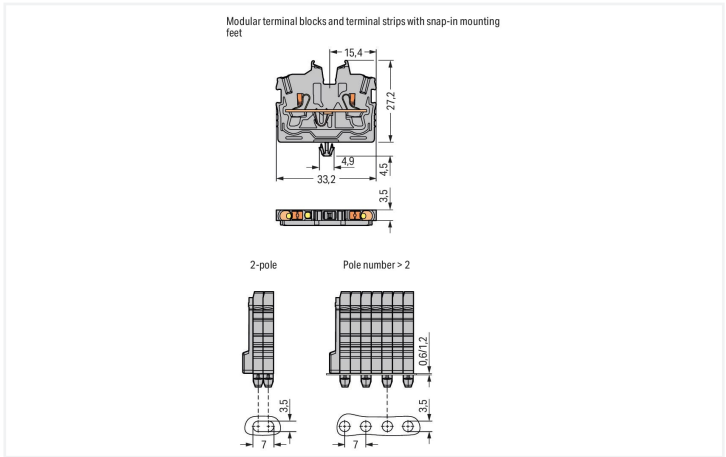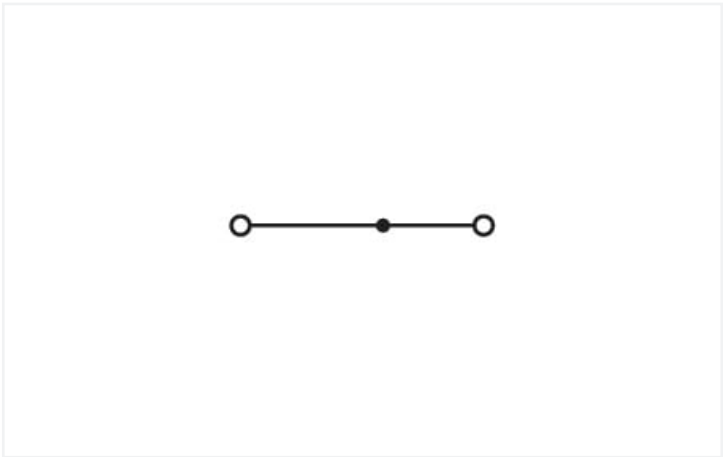# Data Sheet | Item Number: 2250-311/000-014

2-conductor miniature through terminal block; with push-button; 1 mm²; with snap-in mounting foot; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; brown

https://www.wago.com/2250-311/000-014

Color: ■ brown

Similar to illustration

Electrical data

Ratings per	IEC/EN 60998-2-2		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	13.5 A	-	-

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	300 V	300 V	-
Rated current	10 A	10 A	-

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	300 V	300 V	-
Rated current	10 A	10 A	-

Ex information	
Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
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

Power Loss

Power loss, per pole (potential)	0.4338 W
Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

Connection data

Connection points	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
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
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 inches
Wiring direction	Front-entry wiring

Physical data

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

Mechanical data

Mounting type	Snap-in foot
Marking level	Center/side marking

Material data

Note (material data)	Information on material specifications can be found here
Color	brown
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.065 MJ
Weight	2.4 g

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Environmental requirements

Processing temperature	-35 … +85 ℃
Continuous operating temperature	-60 … +105 ℃

Commercial data

PU (SPU)	100 pcs
Country of origin	DE
GTIN	4066966309577
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2250-311/000-014	↓

Documentation

Additional Information

Technical Section	pdf 2240.62 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 2250-311/000-014	↓

1 Compatible Products

1.1 System counterpart

1.1.1 Through terminal block

Item No.: 2250-321
2-conductor miniature through terminal block; with push-button; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CA-GE CLAMP®; 1,00 mm²; gray

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate

Item No.: 2050-391
End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick; gray

1.3 Optional Accessories

1.3.1 DIN-rail

1.3.1.1 Mounting accessories

Item No.: 210-154
Aluminum carrier rail; 1000 mm long; 18 mm wide; 7 mm high; silver-colored

1.3.2 Ferrule

1.3.2.1 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

1.3.3 Installation

1.3.3.1 Mounting accessories

Item No.: 209-137
Mounting adapter; can be used as end stop; 6.5 mm wide; gray

Item No.: 209-120
Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide; gray

1.3.4 Jumper

1.3.4.1 Jumper

Item No.: 2000-406/020-000
Delta jumper; insulated; light gray

Item No.: 2000-410/000-006
Jumper; 10-way; insulated; blue

Item No.: 2000-410
Jumper; 10-way; insulated; light gray

Item No.: 2000-410/000-005
Jumper; 10-way; insulated; red

Item No.: 2000-402/000-006
Jumper; 2-way; insulated; blue

Item No.: 2000-402
Jumper; 2-way; insulated; light gray

Item No.: 2000-402/000-005
Jumper; 2-way; insulated; red

Item No.: 2000-402/000-018
Jumper; 2-way; insulated; yellow-green

1.3.4.1 Jumper

Item No.: 2000-403/000-006 Jumper; 3-way; insulated; blue	Item No.: 2000-403 Jumper; 3-way; insulated; light gray	Item No.: 2000-403/000-005 Jumper; 3-way; insulated; red	Item No.: 2000-404/000-006 Jumper; 4-way; insulated; blue
Item No.: 2000-404 Jumper; 4-way; insulated; light gray	Item No.: 2000-404/000-005 Jumper; 4-way; insulated; red	Item No.: 2000-405/000-006 Jumper; 5-way; insulated; blue	Item No.: 2000-405 Jumper; 5-way; insulated; light gray
Item No.: 2000-405/000-005 Jumper; 5-way; insulated; red	Item No.: 2000-406/000-006 Jumper; 6-way; insulated; blue	Item No.: 2000-406 Jumper; 6-way; insulated; light gray	Item No.: 2000-406/000-005 Jumper; 6-way; insulated; red
Item No.: 2000-407/000-006 Jumper; 7-way; insulated; blue	Item No.: 2000-407 Jumper; 7-way; insulated; light gray	Item No.: 2000-407/000-005 Jumper; 7-way; insulated; red	Item No.: 2000-408/000-006 Jumper; 8-way; insulated; blue
Item No.: 2000-408 Jumper; 8-way; insulated; light gray	Item No.: 2000-408/000-005 Jumper; 8-way; insulated; red	Item No.: 2000-409/000-006 Jumper; 9-way; insulated; blue	Item No.: 2000-409 Jumper; 9-way; insulated; light gray
Item No.: 2000-409/000-005 Jumper; 9-way; insulated; red	Item No.: 2000-440 Jumper; from 1 to 10; insulated; light gray	Item No.: 2000-433/000-006 Jumper; from 1 to 3; insulated; blue	Item No.: 2000-433 Jumper; from 1 to 3; insulated; light gray
Item No.: 2000-433/000-005 Jumper; from 1 to 3; insulated; red	Item No.: 2000-434 Jumper; from 1 to 4; insulated; light gray	Item No.: 2000-435 Jumper; from 1 to 5; insulated; light gray	Item No.: 2000-436 Jumper; from 1 to 6; insulated; light gray
Item No.: 2000-437 Jumper; from 1 to 7; insulated; light gray	Item No.: 2000-438 Jumper; from 1 to 8; insulated; light gray	Item No.: 2000-439 Jumper; from 1 to 9; insulated; light gray	Item No.: 2000-405/011-000 Star point jumper; 3-way; insulated; light gray

1.3.5 Marking

1.3.5.1 Group marker carrier

Item No.: 2009-191
Group marker carrier; gray

1.3.5.2 Marker

Item No.: 793-3501 WMB marking card; as card; plain; snap-on type; white	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.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green
Item No.: 2009-113/000-017 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green	Item No.: 2009-113/000-012 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange	Item No.: 2009-113/000-005 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red	Item No.: 2009-113/000-024 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet
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		

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1.3.5.3 Marking strip

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

1.3.6 Push-in type wire jumper

1.3.6.1 Jumper

Item No.: 2009-404
Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray

Item No.: 2009-406
Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray

Item No.: 2009-402
Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

1.3.7 Test and measurement

1.3.7.1 Testing accessories

Item No.: 2009-174
Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

Item No.: 2009-182
Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.3.8 Tool

1.3.8.1 Operating tool

Item No.: 210-719
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
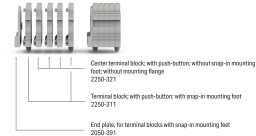
Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured
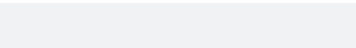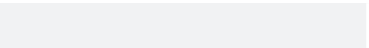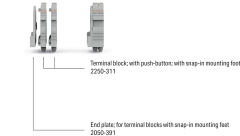
Installation Notes

Installation

Example of a 5-pole terminal strip; with push-buttons; with snap-in mounting feet
Pole number > 2

Center terminal block; with push-button; without snap-in mounting foot; without mounting flange
2250-321

Terminal block; with push-button; with snap-in mounting foot
2250-311

End plate; for terminal blocks with snap-in mounting feet
2050-391

Example of a 2-pole terminal strip; with push-buttons; with snap-in mounting feet

Terminal block; with push-button; with snap-in mounting foot
2250-311

End plate; for terminal blocks with snap-in mounting feet
2050-391

Conductor termination

Insert solid conductors via push-in termination.

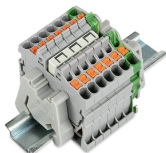Insert ferruled conductors via push-in termination.
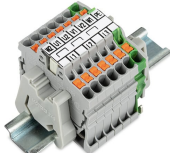
Insert fine-stranded conductors via operating tool.

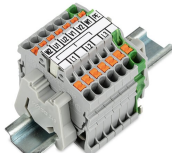Remove all conductors via operating tool.

Commoning

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

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

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

Testing

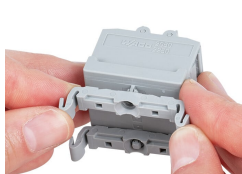Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).
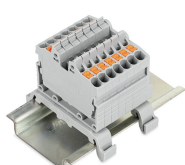
Installation

Mounting a terminal strip with snap-in feet into holes.

Mounting a terminal strip with snap-in feet onto aluminum rail.

Snapping a mounting foot (209-120) to a terminal strip with snap-in mounting feet.

(Distance between mounting feet: approx. 20 … 25 mm)

Terminal strip; with snap-in mounting feet; for DIN-35 rail (209-120 Mounting Foot) (example shows terminal blocks with push-buttons)

Marking

Snapping a marking strip into the marker slot.

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

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